



CABOT CORPORATION

ANNUAL REPORT 2022

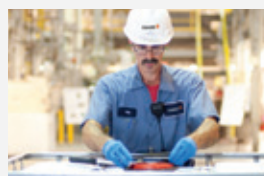


HIGHLIGHTS 2022

GROWTH & INNOVATION



Broke ground on new specialty compounds facility in Cilegon, Indonesia



Expanded capacity at Inkjet facility in Haverhill, MA, USA to support growth in digital printing applications



Acquired Tokai Carbon (Tianjin) Co. Ltd carbon black plant in China to support growth of battery materials product line



Announced collaboration with IFF Health and Biosciences to develop sustainable reinforcing additives

SUSTAINABILITY



Completed one of Europe's first cross-board transportations using a heavy-duty zero-emissions electric truck



Committed ~\$1M to fund twenty college scholarships as part of the chemical industry initiative, Future of STEM Scholars Initiative (FOSSI)



Announced ambition of achieving net zero carbon emissions globally by 2050



Received a Platinum Rating from EcoVadis for the second consecutive year



Named by *Newsweek* as one of "America's Most Responsible Companies" for the third consecutive year



Named E2C™ product line to *European Rubber Journal's* "Top 10 Elastomers for Sustainability" list for the second time

FINANCIAL PERFORMANCE



Adjusted EPS¹ of **\$6.28**
Diluted EPS of \$3.62



Discretionary Free Cash Flow¹ of **\$395M**
Operating Cash Flow of \$100M

¹ Non-GAAP measures. For definitions and reconciliation to the most directly comparable U.S. GAAP measure, see supplemental information for Non-GAAP Reconciliations located at cabotcorp.com/investors under Financials.



A MESSAGE TO OUR SHAREHOLDERS

Sean D. Keohane
President and Chief Executive Officer

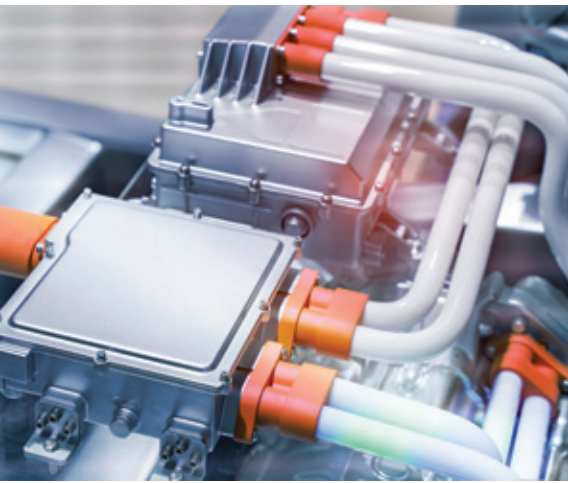
Dear Fellow Shareholders,

As I reflect on the past year, our story at Cabot is one of resilience, transformation, and opportunity. Fiscal 2022 was certainly not without obstacles, as the world experienced the geopolitical shock of Russia's invasion of Ukraine, an associated energy crisis, particularly in Europe, and macroeconomic instability as inflation surged.

Building a resilient organization that can navigate this level of disruption is extremely difficult. However, our employees at Cabot did more than simply navigate the environment. Our team delivered record results and positioned our company to capitalize on transformational growth opportunities. Driven by the adaptability of our teams and leveraging our collaborative culture, we were able to support our customers and deliver innovation to meet their expectations, demonstrate leading shareholder returns, advance our sustainability agenda, and fuel investment in key growth vectors. In doing so, we enter fiscal year 2023 in a position of strength.

I am immensely proud of the accomplishments of our talented global team, and I want to thank them for their passion, perseverance, and commitment to excellence. Our people are unified behind our purpose, which is to improve daily life and enable a more sustainable future. This clarity of purpose, and the diverse range of backgrounds, skills, and experiences that our employees bring to work every day, are what make our company successful.





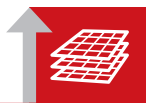
"Driven by the adaptability of our teams and leveraging our collaborative culture, we were able to support our customers, innovate for the future, demonstrate improved shareholder returns, make progress on our sustainability journey and fuel investment in key growth vectors."

DELIVERING A WINNING GROWTH STRATEGY

At the beginning of the fiscal year, we introduced our 'Creating for Tomorrow' strategy which focuses on a new phase of growth and breakout value creation by leveraging our strengths to lead in performance and sustainability today and into the future. Our focus is on driving advantaged growth, delivering innovative chemistry to address our customer's most pressing application challenges, and relentlessly pursuing continuous improvement in everything that we do. We have made tremendous progress in executing our strategy and are currently tracking ahead of our long-term goals.

The power of our 'Creating for Tomorrow' strategy is evident in our financial performance. Despite a turbulent global environment, we achieved a record level of financial performance for our shareholders in fiscal year 2022.

24% year-over-year increase for **Reinforcement Materials EBIT**



11% year-over-year increase for **Performance Chemicals EBIT**



In our business segments, Reinforcement Materials EBIT increased 24% year-over-year to a record high of \$408 million and Performance Chemicals segment EBIT increased 11% year-over-year. Furthermore, we increased revenue by 74% in our Battery Materials product line and generated an 81% EBITDA increase year-over-year. These results were rewarded with total shareholder return of 30% in the fiscal year ended September 30, 2022 which was at the top of our proxy peer group for the 1-year period. Overall, we are very pleased with our performance, which reflects the resilience of our businesses and end-markets, our focus on execution, and the continued momentum in our high growth vectors.

CAPITALIZING ON ADVANTAGED GROWTH OPPORTUNITIES

With 'Creating for Tomorrow,' we are focused on driving advantaged growth by building from our positions of strength and connecting our unique capabilities to end markets that have strong sustainability tailwinds. Over the past year, we have strengthened our industry leading businesses through a relentless focus on commercial and operational excellence. Additionally, we have invested in a pipeline of opportunities across all of our businesses that are driven by compelling growth fundamentals and support the world's sustainability transition.

Paramount among these growth opportunities is battery materials. Led by the transition to electric vehicles, we see a unique opportunity to capitalize on the shift in mobility from internal combustion engines to electric. Our conductive carbon additives play a critical role in

lithium-ion battery chemistry by efficiently transporting electrons in the charging and discharging of the battery and by enabling greater energy density. We have made a variety of strategic investments over the years to position Cabot to capture the explosive growth of this application and broaden our offerings and capacity in this space. In fiscal year 2020, we acquired a leader in carbon nanotube (CNT) production, which broadened our customer offering beyond conductive carbons. In fiscal year 2022, we completed the first phase of a CNT dispersion capacity expansion at this facility and initiated a capital project to double capacity by 2024. We also completed technical upgrades and commenced operations at our Xuzhou, China specialty carbons plant, which allows us to optimize our production and support the growth of battery materials. We acquired a new facility in Tianjin, China with plans to upgrade this facility with technology to produce battery material products to enable a fast and capital efficient capacity expansion to meet our battery customers' growth expectations. I believe that our strategic investments, strong global footprint, technical expertise, and track record of performance give us a strong "right-to-win" in the battery materials space.

As we look to the future, we see that sustainability-driven macro trends will continue to drive a transformation in the way we invest, innovate, and operate.



DRIVING OUR SUSTAINABILITY AMBITIONS

Sustainability is central to our 'Creating for Tomorrow' strategy, and this past year has been about evolving and further integrating our sustainability agenda into our business processes. We recognize that the way we do business and the actions we take are important for the future strength of Cabot and we are committed to continued leadership in this respect.

As a company, we have long been focused on reducing our environmental impact and this commitment is reflected in our 2025 sustainability goals. Fiscal year 2022 marked another year of important progress towards these goals and I encourage our shareholders to learn more about our accomplishments in our most recent sustainability report. While our focus is on achievement of our 2025 goals as a foundation for long-term progress, we strive to continue to elevate our aspirations. To this end, we announced our ambition to achieve net zero emissions globally by 2050. This aspiration requires a long-term strategic view of our business, partnership with customers and suppliers across our value chains, and a multi-faceted approach to technology development.

The progress we are making on our sustainability journey has been recognized by a range of third-party organizations. For the second consecutive year, we earned a platinum rating from EcoVadis, the highest recognition available. EcoVadis is the world's largest provider of business sustainability ratings and many



OUR STRATEGY

Creating for Tomorrow

We will leverage our strengths to lead in performance and sustainability – today and into the future.



GROW

Investing for advantaged growth.



INNOVATE

Developing innovative products and processes that enable a better future.



OPTIMIZE

Driving continuous improvement in everything we do.

of our customers rely on the organization to measure the sustainability progress of their supply chain partners. We were also named to the "America's Most Responsible Companies 2022" list by *Newsweek* for the third consecutive year, and to *Investor's Business Daily's* (IBD) "100 Best ESG Companies" for the second consecutive year.

We do not consider a focus on sustainability as an isolated activity, but as an integral part of our daily work and management practices. We will continue to innovate and develop new ways of integrating sustainability practices into our business and strategic objectives by developing sustainable solutions to meet ever-evolving customer needs, collaborating across our supply chains, and reducing the environmental impacts of our operations. Our sustainability priorities are informed by engagement with our stakeholders. Through regular dialogue, education, and continuous improvement, we aim to create a sustainability program that is well positioned to anticipate and react to economic, social, environmental, and regulatory changes.

CREATING FOR TOMORROW

At Cabot, success is defined by living our purpose and executing on our strategy. With investments in new products and technologies, we plan to not only further increase our presence in high growth, high value markets, such as lithium-ion batteries, which are supported by positive sustainability tailwinds, but also continue to win in our core markets.

Our people and our culture are the driving force behind everything we do, and I am honored to lead a company that is comprised of such passionate and committed

people. As I reflect on the accomplishments of the past year, I am convinced that we have the right strategy in place to deliver growth and breakout value creation for our shareholders. I am excited about what lies ahead for Cabot as we work toward "Creating for Tomorrow."

I would like to close by thanking our customers for their continued support of our company and our shareholders, for your continued trust and confidence in Cabot, our strategy, and our team.

I look forward to what we will accomplish in 2023 and beyond.



UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

Form 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended September 30, 2022

or

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from to

Commission File Number 1-5667

Cabot Corporation

(Exact name of Registrant as specified in its Charter)

Delaware

(State or other jurisdiction of
incorporation or organization)

Two Seaport Lane, Suite 1400
Boston, Massachusetts

(Address of Principal Executive Offices)

04-2271897

(I.R.S. Employer
Identification No.)

02210

(Zip Code)

Registrant's telephone number, including area code: (617) 345-0100

Securities registered pursuant to Section 12(b) of the Securities Exchange Act of 1934:

Title of each class	Trading symbol(s)	Name of each exchange on which registered
Common Stock, \$1 par value per share	CBT	The New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Securities Exchange Act of 1934: None.

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes No

Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act.

Yes No

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See definitions of "large accelerated filer," "accelerated filer," "smaller reporting company", and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

Emerging growth company

If an emerging growth company, indicate by checkmark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the Registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes No

As of the last business day of the Registrant's most recently completed second fiscal quarter (March 31, 2022), the aggregate market value of the Registrant's common stock held by non-affiliates was \$3,840,397,570. As of November 14, 2022, there were 56,328,840 shares of the Registrant's common stock outstanding.

Portions of the Registrant's definitive proxy statement for its 2023 Annual Meeting of Shareholders are incorporated by reference into Part III of this report.

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Information Relating to Forward-Looking Statements

This annual report on Form 10-K contains “forward-looking statements” under the Federal securities laws. These forward-looking statements address expectations or projections about the future, including our expectations regarding our future business performance and overall prospects; segment and product line growth and the assumptions underlying our growth expectations; demand for our products; research and development activities; the recommencing of work on our Cilegon, Indonesia plant expansion for reinforcing carbons; when we expect to complete our new specialty compounds unit at our plant in Cilegon, Indonesia; when we expect the conversion for battery applications at our site in Tianjin to be completed and the operations at this facility and other facilities in China; when we expect expansion of our inkjet production capacity in Haverhill, Massachusetts to be completed; the extension of the compliance date for the installation of technology controls at our Ville Platte, Louisiana facility; our 2025 Sustainability Goals; the sufficiency of our cash on hand, cash provided from operations and cash available under our credit and commercial paper facilities to fund our cash requirements; anticipated capital spending, including environmental-related and technology controls capital expenditures; the settlement of receivables related to our divestiture of our Purification Solutions business; regulatory developments; our ability to manage workplace exposures to carbon nanotubes; cash requirements and uses of available cash, including future cash outlays associated with long-term contractual obligations, restructurings, contributions to employee benefit plans, environmental remediation costs and future respirator liabilities and the timing of such outlays; exposure to interest rate and foreign exchange risk; future benefit plan payments we expect to make; future amortization expenses; our ability to recover deferred tax assets; our operating tax rate; and the possible outcome of legal and environmental proceedings, and value-added tax matters. From time to time, we also provide forward-looking statements in other materials we release to the public and in oral statements made by authorized officers.

Forward-looking statements are not guarantees of future performance and are subject to risks, uncertainties, potentially inaccurate assumptions, and other factors, some of which are beyond our control or difficult to predict. If known or unknown risks materialize, our actual results could differ materially from past results and from those expressed in the forward-looking statements. Important factors that could cause our actual results to differ materially from those expressed in our forward-looking statements are described in Item 1A in this report.

We undertake no obligation to publicly update forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law. Investors are advised, however, to consult any further disclosures we make on related subjects in our 10-Q and 8-K reports filed with the Securities and Exchange Commission (the “SEC”).

PART I

Item 1. *Business*

General

Cabot is a global specialty chemicals and performance materials company headquartered in Boston, Massachusetts. Our principal products are reinforcing and specialty carbons, specialty compounds, conductive carbons, carbon nanotubes, fumed metal oxides, inkjet colorants, and aerogel. Cabot and its affiliates have manufacturing facilities and operations in the United States (“U.S.”) and over 20 other countries. Cabot’s business was founded in 1882 and incorporated in the State of Delaware in 1960. The terms “Cabot”, “Company”, “we”, and “our” as used in this report refer to Cabot Corporation and its consolidated subsidiaries.

In 2016, we adopted our “Advancing the Core” strategy to extend our leadership in performance materials by investing for growth in our core businesses, driving application innovation with our customers, and generating strong cash flows through efficiency and optimization. Following the successful execution of our “Advancing the Core” strategy, we introduced our “Creating for Tomorrow” growth strategy in early fiscal 2022. This new strategy is focused on investing for advantaged growth, developing innovative products and processes that enable a better future, and driving continuous improvement in all we do. Our products are generally based on technical expertise and innovation in one or more of our four core competencies: making and handling very fine particles; modifying the surfaces of very fine particles to alter their functionality; designing particles to impart specific properties to a formulation; and combining particles with other ingredients to deliver a formulated performance intermediate or composite. We focus on creating particles, and formulations of those particles, with the composition, morphology, and surface functionalities to deliver the requisite performance to support our customers’ existing and emerging applications.

Our business is currently organized into two reportable segments: Reinforcement Materials and Performance Chemicals. In the second quarter of fiscal 2022, we completed the sale of our Purification Solutions business, which, prior to the sale, had been a separate reportable segment of the Company. Our business segments are discussed in more detail later in this section.

Both of our segments operate globally, and a significant portion of our revenues and operating profits is derived from operations outside the U.S. In particular, China continues to be an important producer of tires and products for automotive applications and since we made our initial investment in China in 1988, we have increased our operations in China to support increased demand for our products in China. In addition, a significant portion of battery manufacturers are located in China, and we anticipate a material portion of the future growth of our Battery Materials growth vector to be derived from our business and operations in China. We employ local management teams for our operations in China, and our business model in China is predominantly to make and sell product in-country to established local and multi-national customers with operations in China. In fiscal 2022, sales in China across our segments constituted approximately 25% of our revenues, and our property, plant and equipment located in China constituted approximately 25% of our total property, plant and equipment as of September 30, 2022 as disclosed in Note T to our Consolidated Financial Statements. There are legal and operational risks associated with having substantial operations in China, which are more fully described under the heading “Risk Factors”, including the risks described under the headings: “We are exposed to political or country risk inherent in doing business in some countries, including China”; “Information technology systems failures, data security breaches, cybersecurity attacks or network disruptions could compromise our information, disrupt our operations and expose us to liability, which may adversely impact our operations”; “The continued protection of patents, trade secrets and other proprietary intellectual property rights is important to our success”; “Negative or uncertain worldwide or regional economic conditions or trade relations, as well as regional conflicts, may adversely impact our business” and “Our tax rate and other tax obligations are dependent upon a number of factors, a change in any of which could impact our future tax rates and financial results”. Given the size of our current operations in China and the future growth we anticipate from those operations, if our ability to operate in China were to be constrained by legal, regulatory and operational risks, it could have a material negative impact on our overall operations and the value of our securities.

Our internet address is www.cabotcorp.com. We make available free of charge on or through our website our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 as soon as reasonably practicable after electronically filing such material with, or furnishing it to, the SEC. Information appearing on our website is not a part of, and is not incorporated in, this Annual Report on Form 10-K.

Reinforcement Materials

Products

Carbon black is a form of elemental carbon that is manufactured in a highly controlled process to produce particles and aggregates of varied size, structure and surface chemistry, resulting in many different performance characteristics for a wide variety of applications. Reinforcing carbons (a class of carbon blacks manufactured by Cabot) are used to enhance the physical properties of the systems and applications in which they are incorporated.

Our reinforcing carbons products are used in tires and industrial products. Reinforcing carbons have traditionally been used in the tire industry as a rubber reinforcing agent to increase tread durability and are also used as a performance additive to reduce rolling resistance and improve traction. In industrial products such as hoses, belts, extruded profiles and molded goods, reinforcing carbons are used to improve the physical performance of the product, including the product's physical strength, fluid resistance, conductivity and resistivity.

In addition to our reinforcing carbons, we manufacture engineered elastomer composites ("E2C™") solutions that are composites of reinforcing carbons and rubber made using our patented elastomer composites manufacturing process. These composites improve abrasion/wear resistance, reduce fatigue of rubber parts and reduce rolling resistance compared to reinforcing carbons/rubber compounds made entirely by conventional rubber mix methods enabling rubber product manufacturers to reduce the need to make performance trade-offs. The use of E2C™ solutions enables our customers to produce better performing tires, including giant off-the-road tires, truck tires and retreaded tires, as well as other rubber products used in aggressive applications. Additionally, because E2C™ solutions can be integrated into current product methods without additional significant capital investment, and require fewer mixing stages, lower mixing temperatures and shorter mixing cycles than conventional products, operating and production costs may be reduced.

Drivers of Demand and Sales and Customers

Demand for our Reinforcement Materials products is largely driven by the growth and development of the tire and automotive industries. In addition to general global economic conditions, demand for reinforcing carbons in tires is mainly influenced by the number of replacement and original equipment tires produced, which in turn is driven by (i) vehicle and driving trends, including the number of miles driven, and the number of vehicles produced and registered, (ii) demand for high-performance tires, (iii) demand for larger tires and larger vehicles, such as trucks, buses, off-road vehicles used in agriculture, mining and similar vehicles, (iv) consumer and industrial spending on new vehicles and (v) changes in regulatory requirements impacting vehicle fuel efficiency and tire regulations. Demand for reinforcing carbons for industrial products is mainly influenced by vehicle production and design trends, construction activity and general industrial production.

Demand in the developed Western European, Japanese, and North American regions is mainly driven by demographic changes, customers' high-quality requirements, stringent tire regulation standards, changes in consumer preference (e.g., different tire sizes, model and powertrain types), and relatively stable tire replacement demand. Demand in developing markets, such as China, Southeastern Asia, South America and Eastern Europe, is mainly driven by the growing middle class, rapid industrialization, infrastructure spending and increasing car ownership trends. The growth in vehicle production in turn drives demand for both original equipment tires and replacement tires in developing regions.

Sales of reinforcing carbons and E2C™ solutions are made primarily by Cabot employees and secondarily through distributors and sales representatives. We typically "make and sell" in region, which, among other advantages, provides our customers a regional supply chain and typically reduces transportation costs. Sales to five major tire customers represent a material portion of Reinforcement Materials' total net sales and operating revenues. The loss of any of these customers, or a significant reduction in volumes sold to them, could have a material adverse effect on the segment.

Under appropriate circumstances, we have entered into supply arrangements with certain customers, the typical duration of which is one year. These arrangements typically provide for sales price adjustments to account for changes in relevant feedstock indices including natural gas and, in many cases, changes in other relevant costs (such as the cost of CO₂ credits in Europe). In fiscal 2022, approximately two-thirds of our reinforcing carbons volume was sold under these supply arrangements. The majority of the volumes sold under these arrangements are sold to customers in the Americas and Europe.

We licensed our patented elastomer composites manufacturing process to Manufacture Francaise des Pneumatiques Michelin for their exclusive use in tire applications through fiscal 2017, and for a period of limited exclusivity in tire applications through fiscal 2019. As consideration, we receive quarterly royalty payments extending through calendar year 2022.

Much of the reinforcing carbons we sell is used in tires and automotive products and, therefore, our financial results may be affected by the cyclical nature of the automotive industry. However, a large portion of the market for our products is in replacement tires that historically has been less cyclical as demand for replacement tires is correlated to miles driven.

Competition

We are one of the leading manufacturers of carbon black in the world. We compete in the sale of reinforcing carbons with four companies that operate globally and numerous other companies that operate regionally, a number of which export product outside their region of manufacture. Competition for our Reinforcement Materials products is based on product performance, quality, reliability, price, service, technical innovation, and logistics. We believe our product differentiation, technological leadership, global manufacturing presence, operations and logistics excellence and customer service provide us with a competitive advantage.

Raw Materials

The principal raw material used in the manufacture of our reinforcing carbons is composed of residual heavy oils derived from petroleum refining operations, the distillation of coal tars, and the production of ethylene throughout the world. Natural gas is also used in the production of our reinforcing carbons. Raw materials are, in general, readily available and in adequate supply. Raw material costs generally are influenced by the availability of various types of our feedstocks and natural gas, supply and demand of such raw materials and related transportation costs.

Operations

We own, or have a controlling interest in, and operate plants that produce reinforcing carbons in Argentina, Brazil, Canada, China, Colombia, the Czech Republic, France, Indonesia, Italy, Japan, Mexico, the Netherlands and the U.S. An equity affiliate operates a reinforcing carbons plant in Venezuela. In addition, we have a 98% ownership interest in an entity that manufactures our E2C™ products in Port Dickson, Malaysia.

The following table shows our ownership interest as of September 30, 2022 in operations in which we own less than 100%:

Location	Percentage Interest
Shanghai, China	70% (consolidated subsidiary)
Tianjin, China	70% (consolidated subsidiary)
Xingtai City, China	60% (consolidated subsidiary)
Valasske Mezirici (Valmez), Czech Republic	52% (consolidated subsidiary)
Cilegon, Indonesia	98% (consolidated subsidiary)
Port Dickson, Malaysia	98% (consolidated subsidiary)
Valencia, Venezuela	49% (equity affiliate)

During fiscal 2019, we began engineering work on an expansion of our Cilegon, Indonesia plant, which would have added approximately 90,000 metric tons of capacity for reinforcing carbons to our network. In fiscal 2020, after a review of our capital allocation priorities, we temporarily suspended further work on this expansion and currently expect to recommence work on this project at a later time.

One of the main environmental challenges of a carbon black plant is the management of exhaust gas from production processes. This exhaust gas contains a number of regulated pollutants, including carbon monoxide and sulfur compounds. Our most common method for controlling these gases is through combustion, which produces useable energy as a by-product. Currently, nine reinforcing carbons manufacturing sites and four reinforcing carbons/specialty carbons manufacturing sites have energy centers, which allow us to utilize these gases through some form of energy co-generation, such as the sale or reuse of steam, gas or electricity. Depending on our capacity utilization, our energy centers generally reduce our manufacturing operating costs. In addition, we generate revenues from our energy center sales.

Performance Chemicals

Our Performance Chemicals reporting segment is organized into two businesses: our Performance Additives business and our Formulated Solutions business. Our Performance Additives business combines our specialty carbons, battery materials, fumed metal oxides and aerogel product lines, and our Formulated Solutions business combines our specialty compounds and inkjet product lines.

In Performance Chemicals, we design, manufacture and sell materials that deliver performance in a broad range of customer applications across the automotive, construction, infrastructure, inkjet printing, electronics, and consumer products sectors and in applications related to the generation, transmission and storage of energy. Our focus areas for growth include conductive carbon additives and other materials for battery applications, and inkjet dispersions for post print corrugated packaging applications. The investments we have made for growth in this segment, including in respect of these specific areas of focus, are described below under the heading "Operations".

Products

Performance Additives Business

Carbon black is a form of elemental carbon that is manufactured in a highly controlled process to produce particles and aggregates of varied structure and surface chemistry, resulting in many different performance characteristics for a wide variety of applications.

Our specialty carbons are used to impart color, provide rheology control, enhance conductivity and static charge control, provide UV protection, enhance mechanical properties, and provide formulation flexibility through surface treatment. These specialty carbon products are used in a wide variety of applications, such as plastics, which applications represent the largest use for our products, inks, coatings, adhesives, toners, batteries, and displays.

Our battery materials products include our conductive carbon additives and fumed alumina, which are used principally in advanced lead acid and lithium-ion batteries used in electric vehicles. Our conductive carbon additives consist of conductive carbons, carbon nanotubes and carbon nano-structures, and blends of these materials, each of which offers different levels of conductivity and formulation flexibility for battery manufacturers to address performance (energy density, fast charging), cost and safety. In lithium-ion batteries, our conductive carbon additives are used in both cathode and anode applications to increase energy density by providing a conductive network between active materials. Fumed alumina is used to reduce cathode material and electrolyte decomposition and improve capacity retention leading to longer cycle life.

Fumed silica is an ultra-fine, high-purity particle used as a reinforcing, thickening, abrasive, thixotropic, suspending or anti-caking agent in a wide variety of products for the automotive, construction, microelectronics, batteries, and consumer products industries. These products include adhesives, sealants, cosmetics, batteries, inks, toners, silicone elastomers, coatings, polishing slurries and pharmaceuticals. In addition to its battery applications, fumed alumina, also an ultra-fine, high-purity particle, is used as an abrasive, absorbent or barrier agent in a variety of products, such as inkjet media, lighting, coatings, cosmetics and polishing slurries.

Aerogel is a hydrophobic, silica-based particle with a high surface area that is used in a variety of thermal insulation and specialty chemical applications. In the building and construction industry, the product is used in insulative sprayable plasters and composite building products, as well as translucent skylight, window, wall and roof systems for insulating eco-daylighting applications. In the specialty chemicals industry, the product is used to provide matte finishing, insulating and thickening properties for use in a variety of applications including thermal management for lithium-ion batteries.

Formulated Solutions Business

Our masterbatch and conductive compound products, which we refer to as “specialty compounds”, are formulations derived from specialty carbons mixed with polymers and other additives. These products are generally used by plastic resin producers and converters in applications for the automotive, industrial, packaging, infrastructure, agriculture, consumer products, and electronics industries. As an alternative to directly mixing specialty carbon blacks, these formulations offer greater ease of handling and help customers achieve their desired levels of dispersion and color and manage the addition of small doses of additives. In addition, our electrically conductive compound products generally are used to help ensure uniform conductive performance and reduce risks associated with electrostatic discharge in plastics applications.

Our inkjet colorants are high-quality pigment-based black and color dispersions and inks. Our dispersions are based on our patented pigment surface modification technology and polymer encapsulation technology. The dispersions are used in aqueous inkjet inks to impart color, sharp print characteristics and durability, while maintaining high printhead reliability. These products are used in various inkjet printing applications, including traditional work-from-home and corporate office settings, and, increasingly, in commercial and corrugated packaging, that all require a high level of dispersibility and colloidal stability. Our inkjet inks, which utilize our pigment-based colorant dispersions, are used in the commercial printing segment for digital print.

Drivers of Demand and Sales and Customers

Our specialty carbons products have a wide variety of end-uses and demand is largely driven by the growth and development of the construction and infrastructure, automotive, electronics and consumer products industries. Demand for our conductive carbon additives for use in batteries is largely driven by the trend in electrification of vehicles. Demand for fumed silica is mainly influenced by trends in key markets for silicones, adhesives and coatings applications, notably, structural adhesives for automobile light-weighting, epoxy bonding paste for wind turbines, high-performance coatings and hybrid sealants for construction and silicones for medical devices and the proliferation of electronics. Demand for specialty compounds is mainly influenced by growth and development of the automotive, infrastructure, consumer goods and electronic devices, packaging and agriculture industries.

Demand for our inkjet colorants is mainly influenced by developments in print media, pages printed in office and work-from-home environments, as well as press sales and utilization levels as digital aqueous pigment-based inks penetrate commercial and packaging applications historically served by analog printing methods.

Sales of these products are made by Cabot employees and through distributors and sales representatives. In our specialty carbons and specialty compounds product lines, sales are generally to a broad number of customers. In our fumed metal oxides product line, sales under contracts with six customers account for approximately one-third of the revenue. In our battery materials product line, we have made commercial sales to six of eight leading global battery producers, with new product programs under discussion at all eight.

Competition

We are a leading producer of the products we sell in this segment. We compete in the sale of carbon black with three companies that operate globally and numerous other companies that operate regionally, a number of which export product outside their region of manufacture. For battery applications, we compete primarily with three companies that manufacture conductive carbons, a small number of China-based companies that manufacture carbon nanotubes, and one manufacturer of fumed alumina that operates globally. For fumed silica, we compete with two companies with a global presence and several other companies that have a regional presence. For aerogel, we compete principally with one other company that produces aerogel products. We also compete with non-aerogel insulation products manufactured by regional companies throughout the world. For specialty compounds, we compete with many regional companies and a small number of global companies. Our inkjet colorants and inks are designed to replace traditional pigment dispersions and dyes used in inkjet printing applications. Competitive products for inkjet colorants are organic dyes and other dispersed pigments manufactured and marketed by large chemical companies and small independent producers.

Competition for our Performance Chemicals products is based on product performance, quality, reliability, service, technical innovation and price. We believe our product differentiation, technological leadership, operations excellence and customer service provide us with a competitive advantage.

Raw Materials

Raw materials for our products are, in general, readily available and in adequate supply. The principal raw material used in the manufacture of our specialty carbons is composed of residual heavy oils derived from petroleum refining operations, the distillation of coal tars, and the production of ethylene throughout the world. Natural gas is also used in the production of our specialty carbons. These raw material costs generally are influenced by the availability of various types of our feedstocks and natural gas, supply and demand of such raw materials and related transportation costs. Changes in certain of our raw material supplier's operating conditions could reduce the availability of certain very specialized feedstocks.

The principal raw material used in the manufacture of conductive carbons is composed of residual heavy oils derived from petroleum refining operations, the distillation of coal tars, and the production of ethylene throughout the world. Natural gas is also used in the production of our conductive carbons. As product purity is one of the most critical requirements for conductive carbons, we obtain our raw materials from selected key suppliers. The primary raw materials for our carbon nanotubes are catalysts that we synthesize and propylene.

Raw materials for the production of fumed silica are various chlorosilane feedstocks. We purchase feedstocks and for certain customers convert their feedstock to product on a fee-basis (so called "toll conversion"). We also purchase aluminum chloride as feedstock for the production of fumed alumina. We have long-term procurement contracts or arrangements in place for the purchase of fumed silica feedstock primarily from fence-line partners, which we believe will enable us to meet our raw material requirements for the foreseeable future. In addition, we buy some raw materials in the spot market to help ensure flexibility and minimize costs. The principal raw materials for the production of aerogel are silica sol and/or sodium silicate.

The primary raw materials used for our specialty compounds include carbon black, primarily sourced from our carbon black plants, prime and recycled thermoplastic resins and mineral fillers supplied from various sources. Raw materials for inkjet colorants include carbon black sourced from our carbon black plants, organic pigments and other treating agents available from various sources. Raw materials for inkjet inks include pigment dispersions, solvents and other additives.

Operations

We own, or have a controlling interest in, and operate plants that produce specialty carbons primarily in China, the Netherlands and the U.S. We produce our conductive carbon additives in China, and at our specialty carbon plants in the U.S. and in the Netherlands. We also own, or have a controlling interest in, manufacturing plants that produce fumed metal oxides in China, Germany, the United Kingdom ("U.K."), and the U.S. and a manufacturing plant that produces aerogel in Frankfurt, Germany. An equity affiliate operates a fumed metal oxides plant in India. Our specialty compounds are predominately produced in facilities that we own, or have a controlling interest in, located in Belgium, Canada, China and the United Arab Emirates. Our inkjet colorants and inks are manufactured at our facility in the U.S.

The following table shows our ownership interest as of September 30, 2022 in operations in which we own less than 100%:

Location	Percentage Interest
Tianjin, China	90% (consolidated subsidiary)
Jiangxi Province, China	90% (consolidated subsidiary)
Wuhai, China	80% (consolidated subsidiary)
Mettur Dam, India	50% (equity affiliate)

Currently, four of our reinforcing carbons/specialty carbons manufacturing sites have energy centers.

We are investing for growth with a number of capacity expansion projects and other transactions, particularly to increase manufacturing capacity for our specialty carbons and battery materials products, as described below.

To strengthen our formulations capabilities for batteries, in April 2020, we acquired carbon nanotube producer Shenzhen Sanshun Nano New Materials Co., Ltd. Along with additional technology capabilities, this acquisition added a manufacturing facility in Zhuhai, China to our manufacturing network, and in July 2022 we completed the first phase of a debottleneck project to expand our carbon nanotube dispersion capacity at this facility. In March 2022, we completed our purchase from Tokai Carbon Group of its carbon black manufacturing facility in Tianjin, China, and subsequently began technical upgrades to convert certain manufacturing units to allow us to produce conductive carbon additives. We expect the conversion of the first unit at the site, which is specifically targeted to support the growth of our battery materials product line, to be completed in fiscal 2024. We are also manufacturing reinforcing carbons at this facility. Further, during fiscal 2022, we completed certain planned technical upgrades at our plant in Xuzhou, China to produce specialty carbons and the plant became operational during the third quarter. We expect this facility will allow us to improve our specialty carbons production network to meet customer demand across a wide range of applications while freeing up additional capacity for conductive carbons in our global network to support growth in our battery materials product line.

To meet the growing demand in the inkjet market for digital printing applications, in April 2022 we began construction of a new production line at our manufacturing plant in Haverhill, Massachusetts, U.S., to increase our global capacity for aqueous pigment dispersions. We expect this new production line to be operational in fiscal 2023.

In our specialty compounds business, to meet anticipated demand we are in the process of expanding our manufacturing capacity with a new specialty compounds unit at our reinforcing carbons plant in Cilegon, Indonesia, which we expect to be completed in fiscal 2023.

Purification Solutions

We completed the sale of our activated carbon business in March 2022.

Patents and Trademarks

We own and are a licensee of various patents, which expire at different times, covering many of our products as well as processes and product uses. Although the products made and sold under these patents and licenses are important to Cabot, the loss of any particular patent or license would not materially affect our business, taken as a whole. We sell our products under a variety of trademarks we own and take reasonable measures to protect them. While our trademarks are important to Cabot, the loss of any one of our trademarks would not materially affect our business, taken as a whole.

Research and Development

Our products are highly versatile and meet specific performance requirements across many industries, creating opportunities for innovation. In each of fiscal 2022 and fiscal 2021, we spent approximately \$55 million on technology development. Our R&D activities included those focused in the areas of conductive carbon additives, inkjet dispersions and engineered elastomer composites. We are also focused on process innovation across our product lines. We are investing in furthering our sustainability efforts across various areas in order to reduce waste, reduce emissions and utilize more sustainable material in our production processes.

Seasonality

Our businesses are generally not seasonal in nature, although we may experience some regional seasonal declines during holiday periods.

Human Capital Resources

Our success is realized through the engagement and commitment of our people. We believe that our globally distributed workforce positions us well to serve our broad customer base in the regions and geographies in which they operate. As of September 30, 2022, we had approximately 4,200 employees across our global network of office and manufacturing locations, with 40% of our employees located in the Americas (61% of whom are in the United States), 34% in Asia Pacific (77% of whom are in China), and 26% in Europe, Middle East and Africa ("EMEA"). Of this global employee population, 43% are employed in manufacturing roles.

Our Management Executive Committee ("Executive Committee") is comprised of our CEO and his nine direct reports who, collectively, have management responsibility for our businesses and regional operations, our financial, legal, safety, health, environment, and sustainability, human resources, research and development, global business services, and digital functions.

Our primary human capital objectives are to attract, retain and develop the highest quality talent and ensure they feel safe, supported and empowered to do their best work. Accordingly, our management team places significant focus and attention on matters concerning Cabot’s workforce – particularly in the areas of diversity, talent retention and development, total rewards, and employee health and safety. These areas of focus are also represented in our 2025 Sustainability Goals, which include:

- fostering an environment where employees report high levels of inclusion and support for their professional development;
- increasing diverse representation in leadership and professional roles; and
- reducing injuries and frequency of significant process safety events by 50%.

Diversity, Equity and Inclusion (DE&I)

In support of our commitment to foster a diverse and inclusive environment, in fiscal 2022 we introduced a new DE&I strategy focused on increasing diverse representation, education and awareness of DE&I practices, and ensuring equitable policies and practices. In support of this strategy, we:

- Further developed our diversity recruiting capabilities to better attract, source and hire diverse talent through training all recruiters on diversity recruiting best practices, introducing new channels to source diverse talent, and improving our data collection and reporting capabilities to better track our progress.
- Emphasized the need for local teams to engage in DE&I efforts based on what is most relevant for them with support from our employee resource groups (ERGs) and local DE&I councils.
- Conducted a global employee DE&I pulse survey to measure progress on our goals and help us determine where improvement is needed.
- Established DE&I objectives and metrics that will inform funding levels for our short-term incentive compensation awards in fiscal 2023. These objectives are: demonstrating improvement in percent of job searches in which diverse candidates are interviewed, ensuring strong pay equity is maintained with action plans in place to address any pay inequity identified through our global compensation review process, and requiring all people managers attend inclusive leadership training.

Demographic information with respect to gender representation among all Cabot employees and with respect to racial and ethnic representation among Cabot employees located in the United States, as of September 30, 2022, is set forth in the tables below:

Gender Diversity

	Male	% of total	Female	% of total	Total Employees
Executive Committee	7	70%	3	30%	10
Management*	567	73%	205	27%	772
Professional Contributor	793	71%	327	29%	1,120
Hourly & Associate Staff	1,850	81%	438	19%	2,288
Total Population	3,217	77%	973	23%	4,190

Racial and Ethnic Diversity

	Non-Minority	% of total	People of Color**	% of total	Total Employees
Executive Committee	8	100%	-	0%	8
Management*	234	79%	61	21%	295
Professional Contributor	190	83%	40	17%	230
Hourly & Associate Staff	353	71%	145	29%	498
Total Population	785	76%	246	24%	1,031

* Management includes both people managers, excluding members of the Executive Committee, and senior-level individual contributor roles.

** People of Color consists of U.S. based employees who identify as a race or ethnicity other than white.

Talent Retention and Development

We have numerous initiatives and programs to attract, develop and retain our talent tailored to specific employee populations and geographies, including leadership and executive development programs, technical training, and other skill-based training. In fiscal 2022, we introduced a new Leadership Acceleration program to further enhance the skills and effectiveness of our mid-level leaders. We also introduced an online learning platform to support our leadership development programs, DE&I knowledge and skill building, and self-directed learning aligned with our career development portal for employees.

We have well-established performance management and talent development processes in which managers provide regular feedback and coaching to develop employees. Throughout the year, managers and employees engage in annual objective setting, quarterly reviews of goal progress, performance feedback, career development discussions, and a year-end performance evaluation. In addition, we regularly review talent development and succession plans for each of our functions and business segments to identify and develop a pipeline of talent.

Some of our employees in the U.S. and abroad are covered by collective bargaining or similar agreements. We have generally positive and productive employee relations with our employees, unions and works councils globally.

Cabot's global voluntary turnover rate for fiscal 2022 was approximately 9.0%, which represents a slight increase in the company's attrition rate relative to fiscal 2021, which was 8.5%.

Total Rewards

We strive to provide a total rewards program that enables us to attract, retain and motivate the best talent to support our businesses. Our compensation programs embrace a pay for performance philosophy and are designed to be competitive within the markets in which we compete for talent. Our pay practices reward individual and Company performance and are equitably differentiated based on role, experience, contributions, and performance. We regularly assess these practices to ensure we are aligning roles with compensation levels based on job responsibilities, market competitiveness, geographic location, strategic importance of roles and other relevant factors.

Cabot is committed to ensuring that employees are paid fairly, without discrimination while taking into account job-related factors such as responsibilities, location, work experience, education, performance, and contributions. We conduct reviews annually to monitor our pay practices and develop pay actions where appropriate. Our most recent analysis (which did not include employees under certain collective bargaining or similar agreements) indicated that we have strong pay parity between females and males globally as well as with People of Color in the United States across all pay components (annual base salary, short-term incentives, and long-term incentives) for those in the same job and location.

We also aim to provide competitive benefits programs in all the locations where we operate, including meeting or exceeding local regulations and focusing on health and welfare, employee well-being, and retirement savings. We recognize employee needs are changing as they continue to adjust to new work environments, deal with stress and balance home and work life while managing their own health and safety, along with that of their loved ones. We believe that advancing employee health and well-being is important to Cabot's success, and as a result, in fiscal 2022 we:

- Introduced flexible well-being spending accounts for our U.S. and Canadian employees
- Conducted leadership focus groups to better understand well-being opportunities and concerns
- Offered training on Mindful Leadership and Emotional Well-Being for all people leaders
- Conducted a global pulse survey to gain an awareness of our employee's health and well-being priorities and to understand the effectiveness of our programs
- Launched a global well-being intranet site offering resources for employees and managers
- Enhanced our flexible work policies

Employee Health & Safety

We believe that one of our primary responsibilities as an employer is to provide a safe work environment and promote wellness across the workforce. Our goal is for all employees, contractors, and visitors to return home in the same condition as when they arrived at work that day. As part of our "Drive to Zero" initiative, we have set a long-term goal of achieving zero injuries at our facilities worldwide. We intend to achieve this ambitious objective by following a number of measures, including training employees in hazard recognition, ensuring procedures are established to mitigate risks and equipping supervisory personnel with the tools and skills required to execute our work safely. As part of this effort, members of our leadership team participate in root cause determinations and the results are shared throughout our network of operating facilities. Recognizing that it may take many years to achieve our Drive to Zero goal, we have established a continuous improvement goal for personal safety to achieve a 50% reduction in our recordable and severe injury rate from our baseline measurement in 2019 by 2025. For fiscal 2022, our Total Recordable Incident Rate (TRIR) based upon the number of injuries per 200,000 work hours for both employees and contractors was 0.29 and our Lost Time Incident Rate (LTIR) was 0.17. For comparison, the US Bureau of Labor Statistics reports for chemical manufacturing an average TRIR of 2.0 and LTIR of 0.8 in calendar year 2021.

We continue to be recognized as an American Chemistry Counsel Responsible Care[®] company and as part of our commitment to Responsible Care, we remain focused on continuously improving the health and safety of our processes and products. In accordance with this certification, we report our safety performance metrics annually and undergo external audits regularly to evaluate our program, identify gaps, and undertake corrective actions as needed.

In response to the COVID-19 pandemic we put in place additional health and safety protocols at our sites. We continue to monitor and revise these protocols as appropriate to address the evolving nature of the pandemic.

Through our global SH&E Policy, which is endorsed by our Executive Committee, we hold ourselves accountable to demonstrate our company values and continuously improve the way we operate. The policy defines several important objectives for our continuous improvement in safety, including:

- Complying with all applicable regulations
- Sharing complete information about the safe handling of our products
- Maintaining the safety and security of our employees, contractors and neighbors
- Managing our operations to minimize any impacts on our communities
- Exemplifying the Responsible Care® Guiding Principles
- Partnering with customers to develop innovative and sustainable solutions
- Improving efficiencies, reducing environmental impacts and ensuring that we are prepared for emergencies that could occur

Safety, Health, Environment, and Sustainability

In recognition of the importance of safety, health, environment and sustainability matters to Cabot, our Board of Directors has a Safety, Health, Environment, and Sustainability Committee. The Committee, which is comprised of independent directors, meets regularly and oversees our safety, health, and environmental performance, process safety, security, product stewardship, community engagement and governmental affairs. In particular, the Committee reviews metrics, audit results, emerging trends, overall performance, risks and opportunity assessments and management processes related to our safety, health, environmental and sustainability program.

Our ongoing operations are subject to extensive federal, state, local, and foreign laws, regulations, rules, and ordinances relating to safety, health, and environmental matters (“SH&E Requirements”). The SH&E Requirements to which our operations are subject include requirements to obtain and comply with various environmental-related permits for constructing any new facilities and operating all of our existing facilities and for product registrations. We have expended and will continue to expend considerable resources to construct, maintain, operate, and improve our facilities throughout the world for safety, health and environmental protection and to comply with SH&E Requirements. We spent \$80 million in environmental-related capital expenditures in fiscal 2022. We anticipate spending approximately \$92 million for such matters in fiscal 2023, a significant portion of which will continue to be for the installation of air pollution control equipment at our plant in Ville Platte, Louisiana. These costs include costs associated with our compliance with the Consent Decree we entered into in November 2013 with the U.S. Environmental Protection Agency (“EPA”) and the Louisiana Department of Environmental Quality (“LDEQ”) regarding Cabot’s three carbon black manufacturing facilities in the U.S. This settlement is related to the EPA’s national enforcement initiative focused on the U.S. carbon black manufacturing sector alleging non-compliance with certain regulatory and permitting requirements under The Clean Air Act, including the New Source Review (“NSR”) construction permitting requirements. Pursuant to this settlement, Cabot has installed technology controls for sulfur dioxide and/or nitrogen oxide at its carbon black plants in Pampa, Texas and Franklin, Louisiana, and is in the process of installing such technology controls at its plant in Ville Platte. We are currently in discussions with the EPA and LDEQ to extend our compliance date at the Ville Platte facility to mid 2024 based upon force majeure events primarily related to the COVID-19 pandemic. We expect that the total capital costs to install these technology controls will be in the range of \$225 million to \$250 million and will be incurred through fiscal 2024. As of September 30, 2022, we have incurred approximately \$145 million to install these controls in the U.S. Operating these controls increases our plant operating costs. All carbon black manufacturers in the U.S. have settled with the EPA and are installing similar controls. In addition, under the Province of Ontario Ministry of Environment, Conservation and Parks’ (“MECP”) Regulation 419, a new requirement for sulfur dioxide emissions goes into effect in July 2023 for our reinforcing carbons plant in Sarnia, Ontario. We are working with the MECP on a new technical standard for sulfur dioxide air emissions controls at our plant as an alternative to this requirement. Regulatory approval of the new standard is required and, if we do not receive approval prior to July 2023, we anticipate entering into an interim compliance order until such standard is in place. We anticipate we will need to incur capital costs for these new controls although the timing for such spend is uncertain.

As described above, environmental agencies worldwide are increasingly implementing regulations and other requirements resulting in more restrictive air emission limits globally, particularly as they relate to nitrogen oxide, sulfur dioxide and particulate matter emissions. In addition, growing concerns about climate change and an increased focus on carbon neutrality have led to global efforts to reduce greenhouse gas emissions, which will impact the carbon black industry and our business as carbon dioxide is emitted from those manufacturing processes. Currently, in Europe, our four carbon black facilities are subject to the EU Emission Trading Scheme (“EU ETS”). The fourth phase of the EU ETS began in January 2021 with updated product benchmarks for our carbon black facilities. In addition, our carbon black facility in The Netherlands is subject to The Netherlands CO₂ tax, which is a top-off tax to the EU ETS scheme, and in 2021 was assessed a CO₂ tax. We do not expect to be assessed a supplemental Netherlands CO₂ tax in 2022-2025 as EUA pricing is expected to remain higher than the Netherlands CO₂ tax threshold in the next few years. In China, a national emissions trading program is currently in place for the power sector and has not yet been expanded beyond that sector. We continue to monitor that program’s further implementation and expect it to apply to the carbon black industry in 2023 or 2024, with the existing pilot programs expected to continue to operate until the national program becomes effective. In Canada, our carbon black manufacturing facility has been subject to the Canadian federal carbon tax program. The new Ontario Emissions Performance Standard trading system will replace the Canadian federal Output-Based Pricing System for our carbon black facility in Ontario, and specific transition requirements became effective on January 1, 2022. In Mexico, our carbon black facility is participating in the pilot national ETS program, which is expected to be effective in 2023. A carbon tax was adopted in the Tamaulipas state, where our operations in Mexico are located, that became effective on January 1, 2021. We are appealing the applicability of this tax on our operations. In other regions where we operate, some of our facilities are required to report their greenhouse gas emissions but are not currently subject to programs requiring trading or emission controls but may be subject to limited carbon tax programs affecting fuels we purchase. We generally expect to pay any incurred taxes or purchase emission credits as needed to respond to any allocation shortfalls and pass these costs on to our customers. In addition, further air emission regulations may be adopted in the future in regions and countries where we operate, which could have an impact on our operations. Increasing regulatory programs associated with emissions and concerns regarding climate change are expected to increase our capital and operational costs in the future.

Cabot has been named as a potentially responsible party under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (the “Superfund law”) and comparable state statutes with respect to several sites primarily associated with our divested businesses. (See “Legal Proceedings” in Item 3 below, and Note 5 in Item 8 below, under the heading “Contingencies”.) During the next several years, as remediation of various environmental sites is carried out, we expect to spend against our environmental reserve for costs associated with such remediation. As of September 30, 2022, our environmental reserve was approximately \$4 million. Adjustments are made to the reserve based on our continuing analysis of our share of costs likely to be incurred at each site. Inherent uncertainties exist in these estimates due to unknown conditions at the various sites, changing governmental regulations and legal standards regarding liability, and changing technologies for handling site investigation and remediation. While the reserve represents our best estimate of the costs we expect to incur, the actual costs to investigate and remediate these sites may exceed the amounts accrued in the environmental reserve. While it is always possible that an unusual event may occur with respect to a given site and have a material adverse effect on our results of operations in a particular period, we do not believe that the costs relating to these sites, in the aggregate, are likely to have a material adverse effect on our consolidated financial position. Furthermore, it is possible that we may also incur future costs relating to environmental liabilities not currently known to us or as to which it is currently not possible to make an estimate.

The International Agency for Research on Cancer (“IARC”) classifies carbon black as a Group 2B substance (known animal carcinogen, possible human carcinogen). We have communicated IARC’s classification of carbon black to our customers and employees and have included that information in our safety data sheets and elsewhere, as appropriate. We continue to believe that the available evidence, taken as a whole, indicates that carbon black is not carcinogenic to humans, and does not present a health hazard when handled in accordance with good housekeeping and safe workplace practices as described in our safety data sheets.

Our products are subject to the chemical control laws and regulatory requirements of the countries in which they are manufactured or imported and distributed commercially. These laws include the regulation of chemical substances and inventories under the Toxic Substances Control Act (“TSCA”) in the U.S. and the Registration, Evaluation and Authorization of Chemicals (“REACH”) in the European Union. Manufacturers or importers of these chemical substances are required to submit specified health, safety, environment, risk and use information about these substances. Under the “Evaluation” portion of the REACH framework, the European Chemicals Agency (ECHA) and European Union Member States assess the information submitted by companies within registration dossiers and testing proposals to determine whether the associated substances are safe for use. The silica substance evaluation was concluded in 2022, and from this, a proposal for additional regulatory requirements related to silica is expected to be issued. Carbon black is scheduled for a substance review in 2024. Analogous regimes exist in other parts of the world, including the UK, Turkey, Eurasia, China, South Korea, and Taiwan. Many of these chemical control regulations are in the process of a multi-year implementation period for product/substance registrations or notifications.

Additional requirements for nanomaterials apply to many of our existing products including carbon black, fumed silica, inkjet pigments, fumed alumina, and advanced carbons such as carbon nanostructures and carbon nanotubes. Country-specific nanomaterial reporting programs have been implemented in some countries and are being developed by others. In the European Union, application-specific safety evaluations are ongoing for nanomaterials. Silica is currently being re-evaluated for use as a food additive and cosmetic ingredient. Additionally, in 2022, a subset of multi-walled carbon nanotubes that includes a carbon nanotube grade we currently manufacture, were classified as carcinogen category 1B and specific target organ toxicant (lung) after repeated exposure category 1 under European Union regulations. Our carbon nanotubes are bound in a matrix or contained within conductive materials in batteries, molded parts, plastics, coatings, adhesives, and sealants, and we do not believe they present a health risk to consumers under normal use conditions. Exposure to carbon nanotubes could occur in the workplace. However, we believe workplace exposures can be appropriately managed with engineering controls in place at our manufacturing facilities and the use of required personal protective equipment at our sites. We intend to continue to monitor developments with respect to, and comply with requirements for, the safe manufacturing and handling of nanomaterials.

A number of organizations and regulatory agencies have become increasingly focused on the issue of water scarcity, water conservation and water quality, particularly in certain geographic regions. We are engaged in various activities to promote water conservation and wastewater recycling, particularly given that some of our manufacturing processes are water intensive. The costs associated with these activities are not expected to have a material adverse effect on our operations.

Various U.S. agencies and international bodies have adopted security requirements applicable to certain manufacturing and industrial facilities and marine port locations. These security-related requirements involve the preparation of security assessments and security plans in some cases, and in other cases the registration of certain facilities with specified governmental authorities. We closely monitor all security-related regulatory developments and believe we are in compliance with all existing requirements. Compliance with such requirements is not expected to have a material adverse effect on our operations.

Item 1A. Risk Factors

In addition to factors described elsewhere in this report, the following are important factors that could adversely affect our business. The risks described below are not the only risks we face. Additional risks not presently known to us or that we currently deem immaterial may also impair our business operations and financial results.

Industry Risks

Industry capacity utilization and competition from other specialty chemical companies may adversely impact our business.

Our businesses are sensitive to industry capacity utilization, and pricing tends to fluctuate when capacity utilization changes occur, which could affect our financial performance. Further, we operate in a highly competitive marketplace. Our ability to compete successfully depends in part upon our ability to maintain a superior technological capability and to continue to identify, develop and commercialize new and innovative, high value-added products for existing and future customers. Increased competition from existing or newly developed products offered by our competitors or companies whose products offer a similar functionality as our products, particularly those with an improved environmental footprint, and could be substituted for our products, may negatively affect demand for our products. In addition, actions by our competitors could impair our ability to maintain or raise prices, successfully enter new markets or maintain or grow our market position.

Environmental regulations and restrictions that affect the carbon black industry impose constraints on our operations, and could threaten our competitive position and increase our operating costs, which may adversely impact our business and results of operations.

Our ongoing carbon black operations are subject to extensive federal, state, local and foreign laws, regulations, rules and ordinances relating to environmental matters, many of which provide for substantial monetary fines and civil and criminal sanctions for violations. These include requirements to obtain and comply with various environmental-related and other permits for constructing any new facilities and operating all of our existing facilities. These environmental regulatory requirements and restrictions impose constraints on our operations, and could threaten our competitive position. We have expended and will continue to expend considerable amounts to construct, maintain, operate, and improve our facilities around the world for environmental protection.

Further, environmental agencies worldwide are increasingly implementing regulations and other requirements resulting in more restrictive air emission limits globally, particularly as they relate to nitrogen oxides, sulfur dioxide and particulate matter emissions. We expect complying with existing regulations and other regulatory and tax changes being proposed in regions where we operate, if approved, will require us to incur significant additional costs for compliance, capital improvements or limit our current or planned operations. We may not be able to offset the effects of these compliance costs through price increases. Our ability to implement price increases is largely influenced by competitive and economic conditions and could vary significantly depending on

the segment served. Such increases may not be accepted by our customers, may not be sufficient to compensate for increased regulatory costs or may decrease demand for our products and our volume of sales.

A description of these matters is included in the discussion under the heading "Safety, Health, Environment, and Sustainability" in Item 1 above, and in Note 5 in Item 8 below under the heading "Contingencies".

We may be exposed to certain regulatory and financial risks related to climate change developments and an increased focus on carbon neutrality, which may adversely affect our business and results of operations, and increased pressures and adverse publicity about potential impacts on climate change by us or other companies in our industry could harm our reputation.

Carbon dioxide, a greenhouse gas, is emitted in carbon black manufacturing processes. Concerns about the relationship between greenhouse gases and global climate change, and an increased focus on carbon neutrality, may result in additional regulations on both national and supranational levels, to monitor, regulate, control and tax emissions of carbon dioxide and other greenhouse gases. Climate changes include extreme weather impacts, such as changes in rainfall and in storm patterns and intensities, water shortages, significantly changing sea levels and increasing atmospheric and water temperatures. A number of governmental bodies have introduced or are contemplating regulatory changes in response to climate change, including regulating greenhouse gas emissions. Specifically, in certain geographic areas, our carbon black facilities are or may become subject to greenhouse gas emission trading schemes or carbon tax programs under which we may be required to pay any incurred taxes or purchase emission credits if our emission levels exceed our free allocation. The outcome of new legislation or regulation in the U.S. and other jurisdictions in which we operate may result in new or additional requirements and fees or restrictions on certain activities. Compliance with greenhouse gas and climate change initiatives may result in additional costs to us, including, among other things, increased production costs, increased feedstock costs, additional taxes, reduced emission allowances or additional restrictions on production or operations. In addition, certain of our carbon black products for specialty applications have higher greenhouse gas emissions than our other products, which may increase our compliance costs and make it more challenging to achieve our emissions goals without technology developments. We may not be able to offset the effects of these new or more stringent laws and regulations and compliance costs through price increases, which could adversely affect our business and negatively impact our growth. Our ability to implement price increases is largely influenced by competitive and economic conditions and could vary significantly depending on the segment served. Such increases may not be accepted by our customers, may not be sufficient to compensate for increased regulatory costs or may decrease demand for our products and our volume of sales. Any adopted future climate change regulations could also negatively impact our ability to compete with companies situated in areas not subject to such limitations.

Even without such regulation, increased public awareness and adverse publicity about potential impacts on climate change or environmental harm from us or our industry could harm our reputation or otherwise impact the Company adversely. In recent years, investors have also begun to show increased interest about sustainability and climate change as it relates to their investment decisions. In addition, increasing weather-related impacts on our operations and plant sites may impact the cost or availability of insurance. Furthermore, the potential impact of climate change and related regulation on our feedstock suppliers and customers is highly uncertain and there can be no assurance that it will not have an adverse effect on the availability over time of our traditional carbon black feedstocks, our customers' businesses and sourcing arrangements, and on our financial condition and results of operations. For instance, lower demand for oil refinery products may reduce the availability and increase the cost of certain of the key raw materials we use. In addition, many of our tire customers have set sustainability goals for the 2030 to 2050 time period to purchase more sustainable raw materials, including reduced use of fossil-derived materials, which could reduce demand for our traditional carbon black products.

Volatility in the price and availability of raw materials and energy could impact our margins and working capital and our revenues from our energy center operations.

Our manufacturing processes consume significant amounts of energy and raw materials, the costs of which are subject to worldwide supply and demand as well as other factors beyond our control. Our carbon black businesses use a variety of feedstocks as raw material including high sulfur fuel oils, low sulfur fuel oils, coal tar distillates, and ethylene cracker residue, the cost and availability of which vary, based in part on geography. Significant movements or volatility in our carbon black feedstock costs could have an adverse effect on our working capital and results of operations. In addition, regulatory changes or geopolitical conflict may impact the availability and prices of our raw materials. For example, the Russian invasion of Ukraine has disrupted and may continue to disrupt the price and availability of natural gas in Europe.

Certain of our carbon black supply arrangements contain provisions that adjust prices to account for changes in relevant feedstock and natural gas price indices. We also attempt to offset the effects of increases in raw material and energy costs through selling price increases in our non-contract sales, productivity improvements and cost reduction efforts. Success in offsetting increased raw material and energy costs with price increases is largely influenced by competitive and economic conditions and could vary significantly depending on the segment served. Such increases may not be accepted by our customers, may not be sufficient to compensate for increased raw material and energy costs or may decrease demand for our products and our volume of sales. If we are not able to fully offset the effects of increased raw material or energy costs, it could have a significant impact on our financial results. Rapid declines in energy prices and raw material costs can also negatively impact our financial results, as such changes can negatively affect the revenues we receive from our energy centers and yield improvement investments, and may negatively impact our contract pricing adjustments. In addition, we use a variety of feedstock indices in our supply arrangements to adjust our prices for changes in raw materials costs. Depending on feedstock markets and our choice of feedstocks, the indices we use in our supply arrangements may not precisely track our actual costs. This could result in an incongruity between our pricing adjustments and changes in our actual feedstock costs, which can affect our net working capital and our margins. Further, the timing of the implementation of any of these pricing adjustments may not precisely track our actual costs as reflected in our financial statements.

In addition, we obtain certain of our raw materials from selected key suppliers. Although we typically maintain raw material inventory, if any sole source supplier of raw materials ceases supplying raw materials to us, or if any of our key suppliers is unable to meet its obligations under supply agreements with us on a timely basis or at an acceptable price, or at all, we may be forced to incur higher costs to obtain the necessary raw materials elsewhere or, in certain limited cases, may not be able to obtain the required raw materials.

A significant adverse change in a customer relationship or the failure of a customer to perform its obligations under agreements with us could harm our business or cash flows.

Our success in strengthening relationships and growing business with our largest customers and retaining their business over extended time periods is important to our future results. We have a group of key customers across our businesses that together represent a significant portion of our total net sales and operating revenues. The loss of any of our important customers, or a significant reduction in volumes sold to them, could adversely affect our results of operations until such business is replaced or any temporary disruption ends. Further, in our Reinforcement Materials segment we enter into supply arrangements with a number of key customers that typically have a duration of one year, which account for approximately two-thirds of our total reinforcing carbons volumes. Our success in negotiating the price and volume terms under these arrangements could have a material effect on our results. In addition, any deterioration in the financial condition of any of our customers that impairs our customers' ability to make payments to us also could increase our uncollectible receivables and could affect our future results and financial condition.

We are exposed to political or country risk inherent in doing business in some countries, including China.

Sales outside of the U.S. constituted the majority of our revenues in fiscal 2022. We conduct business in several countries, including China, that have less stable legal systems and financial markets, and potentially more corrupt, or less predictable, business environments than the U.S. As set forth in Note T to our Consolidated Financial Statements, sales in China constituted approximately 25% of our revenues in fiscal 2022 and our property, plant and equipment located in China constituted approximately 25% of our total property, plant and equipment as of September 30, 2022. Our operations outside of the U.S., including in China, expose us to risks related to uncertain enforcement of laws by foreign governments as well as risks that foreign governmental entities will change applicable rules and regulations with minimal advance notice. These risks could result in a material change in our operations, which could negatively impact the value of our securities. Additionally, our operations in some countries, including China, are subject to the following risks: changes in the rate of economic growth; unsettled political or economic conditions; non-renewal of operating permits or licenses; possible expropriation or other governmental actions; corruption by government officials and other third parties; social unrest, war, terrorist activities or other armed conflict; confiscatory taxation or other adverse tax policies; deprivation of contract rights; trade regulations affecting production, pricing and marketing of products; reduced protection of intellectual property rights; restrictions or additional costs associated with repatriating cash; exchange controls; inflation; currency fluctuations and devaluation; political tension that could result in sanctions being imposed against our customers or suppliers in countries where sanctions have not been imposed in the past; the effect of global health, safety and environmental matters on economic conditions and market opportunities; and changes in financial policy and availability of credit.

For example, the Chinese government has, from time to time, curtailed manufacturing operations, with little or no notice, in industrial regions out of growing concern over air quality and in response to COVID-19 outbreaks. The timing and length of these curtailments are difficult to predict and, at times, are applied to manufacturing operations without regard to whether the operations being curtailed comply with environmental regulations in the area. Accordingly, our manufacturing operations in China have been subject to these curtailments in the past and will likely be subject to them in the future. In addition, the Chinese government has instituted energy intensity and energy consumption targets in a number of provinces in its efforts to reduce energy consumption, resulting in energy quotas and shortages in energy supply. We are unable to predict how any power outages related to these targets will impact our operations. These events could negatively impact our results of operations and cash flows both during and after the period of any government-imposed curtailment or power outages affecting our operations. Further, any such curtailments on the operations at our customers' facilities could reduce demand for our products and our volumes.

Operational Risks

As a chemical manufacturing company, our operations are subject to operational risks and have the potential to cause environmental or other damage as well as personal injury, or disrupt our ability to supply our customers, any of which could adversely affect our business, results of operations and cash flows.

The operation of a chemical manufacturing business as well as the sale and distribution of chemical products are subject to operational as well as safety, health and environmental risks. For example, the production and/or processing of carbon black, specialty compounds, fumed metal oxides, aerogel, carbon nanotubes, and other chemicals involve the handling, transportation, manufacture or use of certain substances or components that may be considered toxic or hazardous. While we take precautions to handle and transport these materials in a safe manner, if they are mishandled or released into the environment, they could cause property damage or result in personal injury claims against us.

Our manufacturing processes and the transportation of our chemical products and/or the raw materials used to manufacture our products are subject to risks inherent in chemical manufacturing, including leaks, fires, explosions, toxic releases, severe weather, mechanical failures or unscheduled downtime. In addition, the occurrence of material operating problems at our facilities, particularly at a facility that is the sole source of a particular product we manufacture, or a disruption in our supply chain or distribution operations may result in loss of production, which, in turn, may make it difficult for us to meet customer needs. For example, in recent years we have experienced unplanned plant outages at our plants in Franklin, Louisiana and Altamira, Mexico that caused reduced volumes and earnings during the period the plant was down and increased our fixed costs. Other disruptions in supply chains and distribution channels, including those caused by global or regional logistics delays and constraints, such as rail or other transportation interruptions, could disrupt our business operations. These events and their consequences could negatively impact our results of operations and cash flows, both during and after the period of operational difficulties, and could harm our reputation.

An interruption in our operations as a result of fence-line arrangements could disrupt our manufacturing operations and adversely affect our financial results.

At certain of our fumed metal oxides facilities and one of our carbon black facilities in China we have fence-line arrangements with adjacent third party manufacturing operations ("fence-line partners"), who provide raw materials for our manufacturing operations and/or take by-products generated from our operations. Accordingly, any disruptions or curtailments in a fence-line partner's production facilities that impacts their ability to supply us with raw materials or to take our manufacturing by-products could disrupt our manufacturing operations or cause us to incur increased operating costs to mitigate such disruption. We have experienced disruptions in the supply of raw materials from certain of our fence-line partners in recent years, which have caused us to curtail our operations or incur higher operating costs. Significant events at neighboring industrial facilities, such as environmental releases, could also disrupt our operations and result in negative publicity about us and harm our reputation.

Our products are subject to extensive safety, health and environmental requirements, which could impair our ability to manufacture and sell certain products.

In order to secure and maintain the right to produce or sell our products, we must satisfy product related regulatory requirements in different jurisdictions. Obtaining and maintaining these approvals requires a significant amount of product testing and data, and there is no certainty these approvals will be obtained.

Certain national and international health organizations have classified carbon black as a possible or suspected human carcinogen. To the extent that, in the future, (i) these organizations re-classify carbon black as a known or confirmed carcinogen, (ii) other organizations or government authorities in other jurisdictions classify carbon black or any of our other finished products, raw materials or intermediates as suspected or known carcinogens or otherwise hazardous, or (iii) there is discovery of adverse health effects attributable to production or use of carbon black or any of our other finished products, raw materials or intermediates, we could be required to incur significantly higher costs to comply with environmental, health and safety laws, or to comply with restrictions on sales of our products, be subject to legal claims, and our reputation and business could be adversely affected. Further a subset of multi-walled carbon nanotubes that includes a carbon nanotube grade we currently manufacture have been classified as carcinogen category 1B and specific target organ toxicant (lung) after repeated exposure category 1 under European Union regulations. Although our carbon nanotubes are bound in a matrix or contained within conductive materials, exposure to carbon nanotubes could occur in the workplace. We could be required to incur additional costs to comply with requirements for the safe manufacturing and handling of these materials and we could be subject to legal claims associated with our products. In addition, chemicals that are currently classified as non-hazardous may be classified as hazardous in the future, and our products may have characteristics that are not recognized today but may be found in the future to impair human health or to be carcinogenic.

Information technology systems failures, data security breaches, cybersecurity attacks or network disruptions could compromise our information, disrupt our operations and expose us to liability, which may adversely impact our operations.

We rely on information technology, some of which is managed by third parties, to manage the day-to-day operations and activities of our business, operate elements of our manufacturing facilities, manage our customer and vendor transactions, and maintain our financial, accounting and business records. In addition, we collect and store certain data, including proprietary business information, and may have access to confidential or personal information that is subject to privacy and security laws and regulations.

The secure processing, maintenance and transmission of this data is critical to our operations and business strategy. Information technology systems failures, including those associated with our managed service provider or related to upgrading our systems or integrating information technology and other systems in connection with the integration of businesses we acquire, or network disruptions could disrupt our operations by impeding our processing of transactions and our financial reporting, and our operations, which could have a material adverse effect on our business or results of operations.

In addition, our information technology systems could be compromised by outside parties intent on extracting information, corrupting information or disrupting business processes. Despite our security design and controls, and those of our third-party providers, we may be vulnerable to cyber-attacks, computer viruses, security breaches, inadvertent or intentional employee actions, system failures and other risks that could potentially lead to the compromising of sensitive, confidential or personal data, improper use of our, or our third-party provider systems, solutions or networks, unauthorized access, use, disclosure, modification or destruction of information, or operational disruptions. We face increased information technology security and fraud risks due to our increased reliance on working remotely during the COVID-19 pandemic and beyond, which may create additional information security vulnerabilities and/or magnify the impact of any disruption in information technology systems. Additionally, we may be exposed to unauthorized access to our information technology systems through undetected vulnerabilities in our service providers' information systems or software. With the evolving nature of cybersecurity threats, the scope and impact of any information security incident cannot be predicted. In addition, the global regulatory environment pertaining to information security and privacy is increasingly demanding, with new and changing requirements, such as the European Union's General Data Protection Regulation, The Personal Information Protection Law of the People's Republic of China, and Brazil's Lei Geral de Protecao de Dados. Complying with these laws and regulations may be more costly or take longer than we anticipate, and any failure to comply could result in fines or penalties.

Breaches of our security measures, cyber incidents and disruptions, or the accidental loss, inadvertent disclosure, or unapproved dissemination of proprietary information or sensitive or confidential information about the Company, our employees, our vendors, or our customers, or failure to comply with laws and regulations related to information security or privacy, could result in legal claims or proceedings against us by governmental entities or individuals, significant fines, penalties and judgments, disruption of our operations, remediation requirements, changes to our business practices, and damage to our reputation, and could otherwise harm our business and our results of operations.

Natural disasters and severe weather events could affect our operations and financial results.

We operate facilities in areas of the world that are exposed to natural hazards, such as floods, windstorms, hurricanes, and earthquakes. In addition, extreme weather events and changing weather patterns present physical risks on existing infrastructure that may become more frequent or more severe as a result of factors related to climate change. Such events could disrupt our supply of raw materials or otherwise affect production, transportation and delivery of our products or affect demand for our products.

We have experienced recent disruptions of the type described above. For example, the severe flooding that occurred in Western Europe in July 2021 caused significant damage to our specialty compounds plant in Pepinster, Belgium. That disruption resulted in a near-term reduction in earnings from lower volumes and certain increases in our operating costs, not all of which we expect to be able to recover from our insurance.

Financial and Other Risks

Negative or uncertain worldwide or regional economic conditions or trade relations, as well as regional conflicts, may adversely impact our business.

Our operations and performance are affected by worldwide and regional economic conditions. Uncertainty or a deterioration in the economic conditions affecting the businesses to which, or geographic areas in which, we sell products could reduce demand for our products and inflationary pressures may increase our costs. We may also experience pricing pressure on products and services, or be unsuccessful in passing along to our customers an increase in our raw materials costs or energy prices, which could decrease our revenues and have an adverse effect on our financial condition and cash flows. In addition, during periods of economic uncertainty, our customers may temporarily pursue inventory reduction measures that exceed declines in the actual underlying demand.

Regional conflicts may also adversely impact our business. While we do not have manufacturing operations in Russia or Ukraine, and we do not have material sales in Ukraine and have stopped sales into Russia, Russia's continuing invasion of Ukraine is negatively impacting economic conditions in Europe. This could reduce demand for our products in our EMEA region, and negatively impact our and our customers' ability to operate plants in Europe, and harm our suppliers and otherwise increase our operating costs.

In addition, changes in, or tensions relating to, U.S. trade relations with countries where we do business may adversely impact our business. For example, tensions in the U.S.-China trade relationship have led to an increased risk of sanctions being imposed against our suppliers and customers in China which, if imposed, could restrict our ability to do business with such companies. In addition, we may encounter unexpected operating difficulties in China, more restrictive investment opportunities in China, greater difficulty transferring funds, more restrictive travel in and out of China, or negative currency impacts. Further, the cost of our capital projects may be higher than anticipated because of trade tariffs. In addition, escalating tensions in the U.S.-China trade relationship and/or restrictive policies by either country could require us to duplicate the technology resources and capabilities we have in China, particularly those related to our battery materials product line, in a geography outside China, thereby increasing our costs.

Litigation or legal proceedings could expose us to significant liabilities and thus negatively affect our financial results.

As more fully described in Note S in Item 8 below under the heading "Contingencies", we are a party to or the subject of lawsuits, claims, and proceedings, including, but not limited to, those involving environmental, and health and safety matters as well as product liability and personal injury claims relating to asbestosis, silicosis, and coal worker's pneumoconiosis. We are also a potentially responsible party in various environmental proceedings and remediation matters wherein substantial amounts are at issue. Adverse rulings, judgments or settlements in pending or future litigation (including liabilities associated with respirator claims) or in connection with environmental remediation activities could adversely affect our financial results or cause our results to differ materially from those expressed or forecasted in any forward-looking statements.

Our tax rate and other tax obligations are dependent upon a number of factors, a change in any of which could impact our future tax rates and financial results.

Our future tax rates may be adversely affected by a number of factors, including: changes in the jurisdictions in which our profits are determined to be earned and taxed; changes in the estimated realization of our net deferred tax assets; the repatriation of non-U.S. earnings for which we have not previously provided for non-U.S. withholding taxes; adjustments to estimated taxes upon finalization of various tax returns; increases in expenses that are not deductible for tax purposes; changes in available tax credits; the resolution of issues arising from tax audits with various tax authorities; and changes in tax laws or the interpretation of such tax laws. In addition, losses for which no tax benefits can be recorded could materially impact our tax rate and its volatility from one quarter to another.

The Inflation Reduction Act ("IRA"), enacted in the U.S. on August 16, 2022, imposes several new taxes that will be effective in 2023, including a 1% excise tax on stock repurchases.

Fluctuations in foreign currency exchange and interest rates affect our financial results.

We earn revenues, pay expenses, own assets and incur liabilities in countries using currencies other than the U.S. dollar. In fiscal 2022, we derived a majority of our revenues from sales outside the U.S. Because our consolidated financial statements are presented in U.S. dollars, we must translate revenues and expenses, as well as assets and liabilities, into U.S. dollars at exchange rates in effect during or at the end of each reporting period. Therefore, increases or decreases in the value of the U.S. dollar against other currencies in countries where we operate will affect our results of operations and the value of balance sheet items denominated in foreign currencies. Due to the geographic diversity of our operations, weaknesses in some currencies might be offset by strengths in others over time. In addition, we are exposed to adverse changes in interest rates. We use a combination of commercial paper and borrowings under our Credit Agreements to meet our cash needs, with borrowings intra-quarter that may be higher than at quarter-end. As this debt is at variable interest rates, high interest rates environments, such as the current environment, increase our borrowing costs. We manage both these risks through normal operating and financing activities and, when deemed appropriate, through the use of derivative instruments as well as foreign currency debt. We cannot be certain, however, that we will be successful in reducing the risks inherent in exposures to foreign currency and interest rate fluctuations.

The COVID-19 pandemic has disrupted our operations and has had and could continue to have a material adverse effect on our business and any future outbreak of a widespread health epidemic could materially and adversely impact our business in the future.

Our global operations expose us to risks associated with public health crises and outbreaks of epidemics, pandemics, or contagious diseases, such as the outbreak of a novel strain of coronavirus beginning in December 2019 (“COVID-19”). A global health crisis could have a serious adverse impact on the economy and on our business, results of operations and cash flows as the COVID-19 pandemic and associated containment efforts did in fiscal 2020. Specifically, a pandemic or future global health crisis may disrupt operations at our customers and reduce demand for our products, require or cause us to cease operations or idle production lines at our facilities, could materially affect our ability to adequately staff and maintain our operations, including in the event government authorities impose mandatory closures, such as those imposed in China as part of that country’s “Zero COVID” policy, work-from-home orders and social distancing protocols, and seek voluntary facility closures and impose other restrictions to mitigate the further spread of disease. A global health crisis could also disrupt our supply chain and materially and adversely impact our ability to secure supplies for our facilities and to provide personal protective equipment for our employees, which could materially and adversely affect our operations. For example, the COVID-19 pandemic has also contributed to increased costs and decreased availability of labor and materials for construction projects, and these factors have increased the costs of our capital improvement projects and delayed our completion of such projects. There may also be long-term effects on our customers in, and the economies of, affected countries. Even if a virus or other illness does not spread significantly, the perceived risk of infection or health risk may materially affect our business. As we cannot predict the duration or scope of COVID-19 or any pandemic, the negative financial impact to our results cannot be reasonably estimated and could be material. Factors that will influence the impact on our business and operations include the duration and extent of the pandemic, including the virulence and spread of different strains of a virus and the level and timing of vaccine development and distribution across the world and their impact on economic recovery and growth, the extent of imposed or recommended containment and mitigation measures and their impact on our operations and the operations of our customers, and the general economic consequences of the pandemic.

In addition, a global health crisis that continues for an extended period of time with an adverse impact on our revenue and overall profitability may lead to an increase in inventory reserves, allowances for doubtful accounts, and additional valuation allowances on certain of our deferred tax assets, or a reduction in our borrowing availability under our credit agreements, or cause us to recognize impairments for certain long-lived assets including goodwill, intangible assets or property, plant and equipment.

To the extent the COVID-19 pandemic or other widespread health epidemic adversely affected or affects our business and financial results, it may also have the effect of heightening many of the other risks that could adversely affect our business described herein, such as risks associated with industry capacity utilization, volatility in the price and availability of raw materials, material adverse changes in customer relationships including any failure of a customer to perform its obligations under agreements with us, IT security systems risks, factors affecting our tax rate, and risks associated with worldwide or regional economic conditions.

We have entered into a number of derivative contracts with financial counterparties. The effectiveness of these contracts is dependent on the ability of these financial counterparties to perform their obligations and their nonperformance could harm our financial condition.

We have entered into forward foreign currency contracts and cross-currency swaps as part of our financial risk management strategy. The effectiveness of our risk management program using these instruments is dependent, in part, upon the counterparties to these contracts honoring their financial obligations. If any of our counterparties are unable to perform their obligations in the future, we could be exposed to increased earnings and cash flow volatility due to an instrument’s failure to hedge or adequately address a financial risk.

Technology Risks

We may not be successful achieving our growth expectations from new products, new applications and technology developments, and money we spend on these efforts may not result in an increase in revenues or profits commensurate with our investment.

We may not be successful achieving our growth expectations from developing new products or product applications. Moreover, we cannot be certain that the costs we incur investing in new product and technology development will result in an increase in revenues or profits commensurate with our investment. For example, our investments to further develop our E2C™ solutions, inkjet dispersions and inks, and battery materials applications may not result in the earnings growth expectations on which these investments are being made. In addition, the timely commercialization of products that we are developing may be disrupted or delayed by manufacturing or other technical difficulties, market acceptance or insufficient market size to support a new product, competitors' new products, and difficulties in moving from the experimental stage to the production stage. These disruptions or delays could affect our future business results.

The continued protection of our patents, trade secrets and other proprietary intellectual property rights is important to our success.

Our patents, trade secrets and other intellectual property rights are important to our success and competitive position. We own various patents and other intellectual property rights in the U.S. and other countries covering many of our products, as well as processes and product uses. Where we believe patent protection is not appropriate or obtainable, we rely on trade secret laws and practices to protect our proprietary technology and processes, such as physical security, limited dissemination and access and confidentiality agreements with our employees, customers, consultants, business partners, potential licensees and others to protect our trade secrets and other proprietary information. However, trade secrets can be difficult to protect and the protective measures we have put in place may not prevent disclosure or unauthorized use of our proprietary information or provide an adequate remedy in the event of misappropriation or other violations of our proprietary rights. In addition, we are a licensee of various patents and intellectual property rights belonging to others in the U.S. and other countries. Because the laws and enforcement mechanisms of some countries may not allow us to protect our proprietary rights to the same extent as we are able to do in the U.S., the strength of our intellectual property rights will vary from country to country.

Irrespective of our proprietary intellectual property rights, we may be subject to claims that our products, processes or product uses infringe the intellectual property rights of others. These claims, even if they are without merit, could be expensive and time consuming to defend and if we were to lose such claims, we could be enjoined from selling our products or using our processes and/or be subject to damages, or be required to enter into licensing agreements requiring royalty payments and/or use restrictions. Licensing agreements may not be available to us, or if available, may not be available on acceptable terms.

Portfolio Management, Capacity Expansion and Integration Risks

Any failure to realize benefits from acquisitions, alliances or joint ventures or to achieve our portfolio management objectives could adversely affect future financial results.

In achieving our strategic plan objectives, we may pursue acquisitions, alliances or joint ventures intended to complement or expand our existing businesses globally or add product technology, or both. The success of acquisitions of businesses, new technologies and products, or arrangements with third parties is not always predictable and we may not be successful in realizing our objectives as anticipated. We may not be able to integrate any acquired businesses successfully into our existing businesses, make such businesses profitable, or realize anticipated cost savings or synergies, if any, from these acquisitions, which could adversely affect our business results. In addition to strategic acquisitions we evaluate our portfolio in light of our objectives and alignment with our growth strategy. In implementing this strategy we may not be successful in separating non-strategic assets. The gains or losses on the divestiture of, or lost operating income from, such assets may affect our earnings. Moreover, we have in the past, and may again in the future, incur asset impairment charges related to acquisitions or divestitures that reduce earnings. As described in Note D in Item 8 below under the heading "Divestitures", we recorded an asset impairment charge and a loss on sale of business in fiscal 2022 in connection with the disposition of our Purification Solutions business.

Plant capacity expansions and site development projects may impact existing plant operations, be delayed and/or not achieve the expected benefits.

Our ability to complete capacity expansions and site development projects, including capacity conversions from reinforcing carbons to specialty carbons and other site development projects, as planned may be delayed or interrupted by the need to obtain environmental and other regulatory approvals, unexpected cost increases, availability of labor and materials, unforeseen hazards such as weather conditions, and other risks customarily associated with construction projects. These risks include the risk that existing plant operations are disrupted, which could make it difficult for us to meet our customer needs. Moreover, in the case of capacity expansions, the cost of these activities could have a negative impact on the financial performance of the relevant business until capacity utilization at the particular facility is sufficient to absorb the incremental costs associated with an expansion. In addition, our ability to expand capacity in emerging regions depends in part on economic and political conditions in these regions and, in some cases, on our ability to establish operations, construct additional manufacturing capacity or form strategic business alliances.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

Cabot's corporate headquarters are in leased office space in Boston, Massachusetts. We also own or lease office, manufacturing, storage, distribution, marketing and research and development facilities in the U.S. and in foreign countries. The locations of our principal manufacturing and/or administrative facilities are set forth in the table below. Unless otherwise indicated, all the properties are owned.

Location by Region	Reinforcement Materials	Performance Chemicals
Americas Region		
Alpharetta, Georgia*	X	X
Tuscola, Illinois		X
Carrollton, Kentucky**		X
Franklin, Louisiana	X	X
Ville Platte, Louisiana	X	
Billerica, Massachusetts	X	X
Haverhill, Massachusetts		X
Midland, Michigan		X
Pampa, Texas	X	X
Campana, Argentina	X	
Maua, Brazil	X	X
Sao Paulo, Brazil*(1)	X	X
Saint-Jean-sur-Richelieu, Québec, Canada		X
Sarnia, Ontario, Canada	X	X
Cartagena, Colombia	X	
Altamira, Mexico**	X	
Europe, Middle East and Africa Region		
Loncin, Belgium		X
Pepinster, Belgium		X
Valasske Mezirici (Valmez), Czech Republic**	X	
Port Jerome, France**	X	
Frankfurt, Germany*		X
Rheinfelden, Germany		X
Ravenna, Italy	X	
Riga, Latvia*(1)	X	X
Schaffhausen, Switzerland*	X	X
Botlek, Netherlands**	X	X
Dubai, United Arab Emirates*		X
Barry, United Kingdom (Wales)**		X

Location by Region	Reinforcement Materials	Performance Chemicals
Asia Pacific Region		
Jiangsu Province, China**		X
Jiangxi Province, China**		X
Tianjin, China** (2 plants)	X	X
Shanghai, China*(1)	X	X
Shanghai, China** (plant)	X	
Xingtai City, China**	X	
Wuhai, China**		X
Shenzhen, China**		X
Zhuhai, China**		X
Mumbai, India*	X	X
Cilegon, Indonesia**	X	
Jakarta, Indonesia*(1)	X	X
Chiba, Japan	X	
Shimonoseki, Japan**	X	
Tokyo, Japan*(1)	X	X
Port Dickson, Malaysia**	X	

(1) Business service center

* Leased premises

** Building(s) owned by Cabot on leased land

We conduct research and development for our various businesses primarily at facilities in Billerica, Massachusetts; Pampa, Texas; Pepinster, Belgium; Frankfurt, Germany; and Zhuhai and Shanghai, China.

With our existing manufacturing plants and planned expansions, we generally have sufficient production capacity to meet current requirements and expected near-term growth. These plants are generally well maintained, in good operating condition and suitable and adequate for their intended use. Our administrative offices and other facilities are suitable and adequate for their intended purposes.

Item 3. Legal Proceedings

Cabot is a party in various lawsuits and environmental proceedings wherein substantial amounts are claimed. Additional information regarding legal proceedings involving Cabot is disclosed in Note 5 in Item 8 below, under the heading "Contingencies", which disclosure is incorporated herein by reference.

Item 4. Mine Safety Disclosures

Not applicable.

Information about our Executive Officers

Set forth below is certain information about Cabot's executive officers as of November 14, 2022.

Sean D. Keohane, age 55, is President and Chief Executive Officer and a member of Cabot's Board of Directors, positions he has held since March 2016. Mr. Keohane joined Cabot in 2002. From November 2014 until March 2016 he was Executive Vice President and President of Reinforcement Materials. From March 2012 until November 2014, he was Senior Vice President and President of Performance Chemicals, and from May 2008 until March 2012, he was General Manager of Performance Chemicals. He was appointed Vice President in March 2005, Senior Vice President in March 2012 and Executive Vice President in November 2014. He was a member of the Interim Office of the Chief Executive Officer, which was in place from December 2015 until March 2016.

Erica McLaughlin, age 46, is Senior Vice President and Chief Financial Officer. Ms. McLaughlin joined Cabot in 2002. She was appointed Senior Vice President and Chief Financial Officer in May 2018, and in October 2018 she assumed responsibility for Corporate Strategy and Development. From June 2016 until May 2018 she was Vice President of Business Operations for Reinforcement Materials and General Manager of the tire business, and from July 2011 until June 2016, she was Vice President of Investor Relations and Corporate Communications. Prior to July 2011, she held a variety of leadership positions in Finance and Corporate Planning.

Karen A. Kalita, age 43, is Senior Vice President and General Counsel. Ms. Kalita joined Cabot in 2008. Prior to assuming her current position in June 2019, she held several key positions in Cabot's Law Department, including Chief Counsel to the Company's Reinforcement Materials segment from November 2015 to June 2019 and Purification Solutions segment from June 2013 to June 2019, and senior legal counsel to the Company's previous Advanced Technologies segment. Prior to joining the Company, Ms. Kalita was in private practice at WilmerHale LLP in Boston, MA.

Hobart C. Kalkstein, age 52, is Senior Vice President and President, Reinforcement Materials Segment and President, Americas Region. Mr. Kalkstein joined Cabot in 2005. Prior to assuming his current role in April 2016, he was Vice President of Corporate Strategy and Development from December 2015 to April 2016. From October 2013 to December 2015, he served as Vice President of Global Business Operations for Purification Solutions and from November 2012 to December 2015 as General Manager of Global Emission Control Solutions for Purification Solutions, and from January 2012 to November 2012 he served as Vice President of Business Operations and Executive Director of Marketing and Business Strategy for Performance Chemicals. Prior to that, he served as General Manager of the Aerogel business from October 2007 to February 2010.

Jeff Zhu, age 54, is Senior Vice President and President, Performance Additives business and President, Asia Pacific Region. Mr. Zhu joined Cabot in 2012. Prior to assuming his current role in October 2019, he had served as President, Asia Pacific Region since joining Cabot. Prior to joining Cabot, Mr. Zhu served in a variety of regional and global business leadership roles at Rhodia from 1994 until 2010, including Asia Pacific regional commercial director from 1994 to 2002, regional vice president and general manager of Rhodia Novacare Asia Pacific from 2002 to 2008, and vice president and global director of Rhodia electronics and catalysis from 2008 to 2010. In addition, Mr. Zhu served as head of global pulp and paper sales at Asia Pacific Resources International Holdings Limited from 2010 to 2012.

PART II

Item 5. Market for Registrant’s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Cabot’s common stock is listed for trading (symbol CBT) on the New York Stock Exchange. As of November 14, 2022, there were 587 holders of record of Cabot’s common stock.

Issuer Purchases of Equity Securities

The table below sets forth information regarding Cabot’s purchases of its equity securities during the quarter ended September 30, 2022:

Period	Total Number of Shares Purchased ⁽¹⁾⁽²⁾	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs ⁽¹⁾	Maximum Number (or Approximate Dollar Value) of Shares that May Yet Be Purchased Under the Plans or Programs ⁽¹⁾
July 1, 2022 — July 31, 2022	—	\$ —	—	4,321,334
August 1, 2022 — August 31, 2022	—	\$ —	—	4,321,334
September 1, 2022 — September 30, 2022	68,200	\$ 73.13	68,200	4,253,134
Total	<u>68,200</u>		<u>68,200</u>	

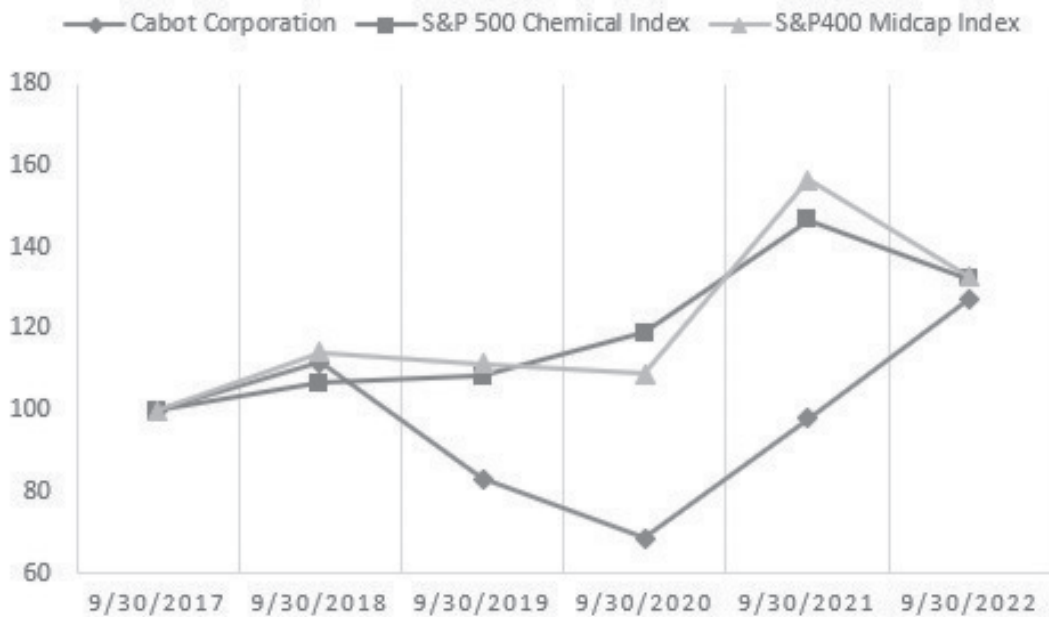
⁽¹⁾ On July 13, 2018, Cabot publicly announced that the Board of Directors authorized the Company to repurchase up to an additional ten million shares of its common stock on the open market or in privately negotiated transactions, increasing the amount of shares available for repurchase at that time to approximately eleven million shares. The current authorization does not have a set expiration date.

⁽²⁾ Total number of shares purchased does not include 681 shares withheld to pay taxes on the vesting of equity awards made under the Company's equity incentive plans or to pay the exercise price of options exercised during the period.

Comparative Stock Performance

The graph compares the cumulative total stockholder return on Cabot common stock for the five-year period ended September 30, 2022 with the S&P 500 Chemicals Index and the S&P Midcap 400 Index. The comparisons assume the investment of \$100 on October 1, 2017 in Cabot's common stock and in each of the indices and the reinvestment of all dividends.

The stock price performance on the graph below is not necessarily indicative of future price performance.



The information included under the heading comparative stock performance in Item 5 shall not be deemed to be "soliciting material" or subject to Regulation 14A, shall not be deemed "filed" for purposes of Section 18 of the Exchange Act, or otherwise be subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act.

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

Critical Accounting Policies

Our consolidated financial statements have been prepared in conformity with U.S. GAAP. This preparation of our financial statements requires management to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues, and expenses and related disclosure of contingent assets and liabilities. We consider an accounting estimate to be critical to the financial statements if (i) the estimate is complex in nature or requires a high degree of judgment and (ii) different estimates and assumptions were used, the results could have a material impact on the consolidated financial statements. On an ongoing basis, we evaluate our estimates and the application of our policies. We base our estimates on historical experience, current conditions and on various other assumptions that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates. The policies that we believe are critical to the preparation of the consolidated financial statements are presented below.

Revenue Recognition

We recognize revenue when our customers obtain control of promised goods or services. The revenue recognized is the amount of consideration which we expect to receive in exchange for those goods or services. Our contracts with customers are generally for products only and do not include other performance obligations. Generally, we consider purchase orders, which in some cases are governed by master supply agreements, to be contracts with customers. The transaction price as specified on the purchase order or sales contract is considered the standalone selling price for each distinct product. To determine the transaction price at the time when revenue is recognized, we evaluate whether the price is subject to adjustments, such as for returns, discounts or volume rebates, which are stated in the customer contract, to determine the net consideration to which we expect to be entitled. Revenue from product sales is recognized based on a point in time model when control of the product is transferred to the customer, which typically occurs upon shipment or delivery of the product to the customer and title, risk and rewards of ownership have passed to the customer. We have an immaterial amount of revenue that is recognized over time. Payment terms typically range from zero to ninety days.

Shipping and handling activities that occur after the transfer of control to the customer are billed to customers and are recorded as sales revenue, as we consider these to be fulfillment costs. Shipping and handling costs are expensed in the period incurred and included in Cost of sales within the Consolidated Statements of Operations. Taxes collected on sales to customers are excluded from the transaction price.

We generally provide a warranty that our products will substantially conform to the identified specifications. Our liability typically is limited to either a credit equal to the purchase price or replacement of the non-conforming product. Returns under warranty have historically been immaterial.

We do not have contract assets or liabilities that are material.

When the period of time between the transfer of control of the goods and the time the customer pays for the goods is one year or less, we do not consider there to be a significant financing component associated with the contract.

Inventory Valuation

Inventories are stated at the lower of cost or net realizable value. The cost of inventories is determined using the FIFO method.

We periodically review inventory for both potential obsolescence and potential declines in anticipated selling prices. In this review, we make assumptions about the future demand for and market value of the inventory, and based on these assumptions estimate the amount of any obsolete, unmarketable, slow moving or overvalued inventory. We write down the value of our inventories by an amount equal to the difference between the cost of the inventory and its estimated net realizable value. Historically, such write-downs have not been material. If actual market conditions are less favorable than those projected by management at the time of the assessment, however, additional inventory write-downs may be required, which could reduce our gross profit and our earnings.

Goodwill Impairment

Goodwill is comprised of the purchase price of business acquisitions in excess of the fair value assigned to the net tangible and identifiable intangible assets acquired. Goodwill is not amortized and is subject to impairment testing annually, or when events or changes in the business environment indicate that the carrying value of the reporting unit may exceed its fair value.

A reporting unit, for the purpose of the impairment test, is at or below the operating segment level, and constitutes a business for which discrete financial information is available and regularly reviewed by segment management. Reinforcement Materials, and the fumed metal oxides, specialty compounds, and battery materials product lines within Performance Chemicals, which are considered separate reporting units, carried our goodwill balances as of September 30, 2022.

For the purpose of the goodwill impairment test, we first assess qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If an initial qualitative assessment identifies that it is more likely than not that the carrying value of a reporting unit exceeds its estimated fair value, an additional quantitative evaluation is performed. Alternatively, we may elect to proceed directly to the quantitative goodwill impairment test. If based on the quantitative evaluation the fair value of the reporting unit is less than its carrying amount, a goodwill impairment loss would result. The goodwill impairment loss would be the amount by which the carrying value of the reporting unit, including goodwill, exceeds its fair value, limited to the total amount of goodwill allocated to that reporting unit. The fair value of a reporting unit is based on discounted estimated future cash flows. The assumptions used to estimate fair value include management's best estimates of future growth rates, operating cash flows, capital expenditures and discount rates over an estimate of the remaining operating period at the reporting unit level. The fair value is also benchmarked against the value calculated from a market approach using the guideline public companies method. Based on our most recent annual goodwill impairment test performed as of August 31, 2022, the fair values of the Reinforcement Materials, fumed metal oxides, specialty compounds, and battery materials reporting units were substantially in excess of their carrying values.

Long-lived Assets Impairment

Our long-lived assets primarily include property, plant and equipment, and intangible assets. The carrying values of long-lived assets are reviewed for impairment whenever events or changes in business circumstances indicate that the carrying amount of an asset may not be recoverable.

To test for impairment of assets, we generally use a probability-weighted estimate of the future undiscounted net cash flows of the assets over their remaining lives to determine if the value of the asset is recoverable. Long-lived assets are grouped with other assets and liabilities at the lowest level for which independent identifiable cash flows are determinable.

An asset impairment is recognized when the carrying value of the asset is not recoverable based on the analysis described above, in which case the asset is written down to its fair value. If the asset does not have a readily determinable fair value, a discounted cash flow model may be used to determine the fair value of the asset. In circumstances when an asset does not have separately identifiable cash flows, an impairment charge is recorded when we no longer intend to use the asset.

Contingencies

We accrue costs related to contingencies when it is probable that a liability has been incurred and the amount can be reasonably estimated. Contingencies could arise from litigation, environmental remediation or contractual arrangements. When a single liability amount cannot be reasonably estimated, but a range can be reasonably estimated, we accrue the amount that reflects the best estimate within that range or the low end of the range if no estimate within the range would be considered more likely than any other estimate. The amount accrued is determined through the evaluation of various information, which could include claims, settlement offers, demands by government agencies, estimates performed by independent third parties, identification of other responsible parties and an assessment of their ability to contribute, and our prior experience. We do not reduce the estimated liability for possible recoveries from insurance carriers. Proceeds from insurance carriers are recorded when realized by either the receipt of cash or a contractual agreement. Litigation is highly uncertain and there is always the possibility of an unusual result in any particular case that may reduce our earnings and cash flows.

We have recorded a significant reserve for respirator liability claims. Our current estimate of the cost of our share of pending and future respirator liability claims is based on facts and circumstances existing at this time, including the number and nature of the remaining claims. Developments that could affect our estimate include, but are not limited to, (i) significant changes in the number of future claims, (ii) changes in the rate of dismissals without payment of pending claims, (iii) significant changes in the average cost of resolving claims, including potential settlements of groups of claims, (iv) significant changes in the legal costs of defending these claims, (v) changes in the nature of claims received or changes in our assessment of the viability of these claims, (vi) trial and appellate outcomes, (vii) changes in the law and procedure applicable to these claims, (viii) the financial viability of the parties that contribute to the payment of respirator claims and developments in the bankruptcy proceedings of one of those parties, (ix) exhaustion or changes in the recoverability of the insurance coverage maintained by certain of the parties that contribute to the settlement of respirator claims, or a change in the availability of the indemnity provided by a former owner of the business, (x) changes in the allocation of costs among the various parties paying legal and settlement costs, and (xi) a determination that the assumptions that were used to estimate our share of liability are no longer reasonable. We cannot determine the impact of these potential developments on our current estimate of our share of liability for these existing and future claims. Because reserves are limited to amounts that are probable and estimable as of a relevant measurement date, and there is inherent difficulty in projecting

the impact of potential developments on our share of liability for these existing and future claims, it is reasonably possible that the liabilities for existing and future claims could change in the near term and that change could be material. Refer to Note S of our Notes to the Consolidated Financial Statements for details on the respirator liabilities and settlements.

Income Taxes

Our business operations are global in nature, and we are subject to taxes in numerous jurisdictions. Tax laws and tax rates vary substantially in these jurisdictions and are subject to change based on the political and economic climate in those countries. We file our tax returns in accordance with our interpretations of each jurisdiction's tax laws.

Significant judgment is required in determining our worldwide provision for income taxes and recording the related tax assets and liabilities. Furthermore, our tax positions are periodically subject to challenge by taxing authorities throughout the world. We have recorded reserves for taxes and associated interest and penalties when it becomes more likely than not that an amount would be payable to tax authorities in future years. Any significant impact as a result of changes in law, tax rates, tax audit, or review could lead to adjustments to our income tax expense, our effective tax rate, and/or our cash flow.

We record benefits for uncertain tax positions based on an assessment of whether the position is more likely than not to be sustained by the taxing authorities. If this threshold is not met, no tax benefit of the uncertain tax position is recognized. If the threshold is met, the tax benefit that is recognized is the largest amount that is greater than 50% likely of being realized upon ultimate settlement. This analysis presumes the taxing authorities' full knowledge of the positions taken and all relevant facts, but does not consider the time value of money. We also accrue for interest and penalties on these uncertain tax positions and include such charges in the income tax provision in the Consolidated Statements of Operations.

Additionally, we have established valuation allowances against a variety of deferred tax assets, including net operating loss carryforwards, capital loss carryforwards, foreign tax credits, and other income tax credits. Valuation allowances take into consideration our ability to use these deferred tax assets and reduce the value of such items to the amount that is deemed more likely than not to be recoverable. Our ability to utilize these deferred tax assets is determined in accordance with U.S. GAAP. In jurisdictions where we have a three-year cumulative loss, we utilize recent historical results in order to assess the recoverability of deferred tax assets. Where we have a three-year cumulative profit, we review our forecast of future taxable income in relation to actual results and expected future trends. We perform this review on a quarterly basis. Failure to achieve our operating income targets, may change our assessment regarding the recoverability of our net deferred tax assets and such change could result in an increase in the valuation allowance being recorded against some or all of our net deferred tax assets. An increase in a valuation allowance would result in additional income tax expense, while a release of valuation allowances in periods when these tax attributes become realizable would reduce our income tax expense.

Significant Accounting Policies

We have other significant accounting policies that are discussed in Note A in Item 8 below. Certain of these policies include the use of estimates, but do not meet the definition of critical because they generally do not require estimates or judgments that are as difficult or subjective to measure. However, these policies are important to an understanding of the consolidated financial statements.

Recently Issued Accounting Pronouncements

Refer to the discussion in Note B of our Notes to the Consolidated Financial Statements.

Results of Operations

Cabot is organized into two reportable segments: Reinforcement Materials and Performance Chemicals. The Company's former Purification Solutions business was a separate reportable segment prior to divestiture in the second quarter of fiscal 2022. Cabot is also organized for operational purposes into three geographic regions: the Americas; EMEA; and Asia Pacific. The discussions of our results of operations for the periods presented reflect these structures.

Our analysis of financial condition and operating results should be read with our consolidated financial statements and accompanying notes. Unless a calendar year is specified, all references to years in this discussion are to our fiscal years ended September 30.

This section discusses our fiscal 2022 and fiscal 2021 results of operations and year-to-year comparisons between fiscal 2022 and fiscal 2021. For the discussions of our fiscal 2020 results and year-to-year comparisons between fiscal 2021 and fiscal 2020, refer to our discussions under the headings "Results of Operations" and "Cash Flows and Liquidity" in Item 7 of the Company's Annual Report on Form 10-K for the fiscal year ended September 30, 2021, which was filed with the United States Securities and Exchange Commission on November 29, 2021.

Definition of Terms and Non-GAAP Financial Measures

When discussing our results of operations, we use several terms as described below.

The term “product mix” refers to the mix of types and grades of products sold or the mix of geographic regions where products are sold, and the positive or negative impact this has on the revenue or profitability of the business and/or segment.

Our discussion under the heading “(Provision) Benefit for Income Taxes and Reconciliation of Effective Tax Rate to Operating Tax Rate” includes a discussion and reconciliation of our “effective tax rate” and our “operating tax rate” for the periods presented, as well as management’s projection of our operating tax rate range for the next fiscal year. Our operating tax rate is a non-GAAP financial measure and should not be considered as an alternative to our effective tax rate, the most comparable GAAP financial measure. The operating tax rate excludes income tax (expense) benefit on certain items and discrete tax items. The income tax (expense) benefit on certain items is determined using the applicable rates in the taxing jurisdictions in which the certain items occurred and includes both current and deferred income tax (expense) benefit based on the nature of the certain items. Discrete tax items include, but are not limited to, changes in valuation allowance, uncertain tax positions, and other tax items, such as the tax impact of legislative changes and tax accruals on historic earnings due to changes in indefinite reinvestment assertions. Our definition of the operating tax rate may not be comparable to the definition used by other companies. Management believes that this non-GAAP financial measure is useful supplemental information because it helps our investors compare our tax rate year to year on a consistent basis and to understand what our tax rate on current operations would be without the impact of these items.

Our discussion under the heading “Fiscal 2022 compared to Fiscal 2021—By Business Segment” includes a discussion of Total segment EBIT, which is a non-GAAP financial measure defined as Income (loss) from continuing operations before income taxes and equity in earnings from affiliated companies less certain items and other unallocated items. Our Chief Operating Decision Maker, who is our President and Chief Executive Officer, uses segment EBIT to evaluate the operating results of each segment and to allocate resources to the segments. We believe Total segment EBIT, which reflects the sum of EBIT from our reportable segments, provides useful supplemental information for our investors as it is an important indicator of our operational strength and performance, allows investors to see our results through the eyes of management, and provides context for our discussion of individual business segment performance. Total segment EBIT should not be considered an alternative for Income (loss) from continuing operations before income taxes and equity in earnings of affiliated companies, which is the most directly comparable U.S. GAAP financial measure. A reconciliation of Total segment EBIT to Income (loss) from continuing operations before income taxes and equity in earnings of affiliated companies is provided under the heading “Fiscal 2022 compared to Fiscal 2021—By Business Segment”. Investors should consider the limitations associated with this non-GAAP measure, including the potential lack of comparability of this measure from one company to another.

In calculating Total segment EBIT, we exclude from our Income (loss) from continuing operations before income taxes and equity in earnings of affiliated companies (i) items of expense and income that management does not consider representative of our fundamental on-going segment results, which we refer to as “certain items”, and (ii) items that, because they are not controlled by the business segments and primarily benefit corporate objectives, are not allocated to our business segments, such as interest expense and other corporate costs, which include unallocated corporate overhead expenses such as certain corporate salaries and headquarter expenses, plus costs related to special projects and initiatives, which we refer to as “other unallocated items”. Management believes excluding the items identified as certain items facilitates operating performance comparisons from period to period by eliminating differences caused by the existence and timing of certain expense and income items that would not otherwise be apparent on a U.S. GAAP basis and also facilitates an evaluation of our operating performance without the impact of these costs or benefits. The items of income and expense that we have excluded from Total segment EBIT, as applicable, but that are included in our U.S. GAAP Income (loss) from continuing operations before income taxes and equity in earnings of affiliated companies, as applicable, are described below.

- Asset impairment charges, which primarily include charges associated with an impairment of goodwill, other long-lived assets or assets held for sale.
- Charges related to the divestiture of our Purification Solutions business, which include accelerated costs associated with the change in control and employee incentive compensation.
- Benefit from the settlement of a royalty arrangement entered into in connection with the divestiture of our former Specialty Fluids business.
- Legal and environmental reserves and matters, which consist of costs or benefits for matters typically related to former businesses or that are otherwise incurred outside of the ordinary course of business.

- Global restructuring activities, which include costs or benefits associated with cost reduction initiatives or plant closures and are primarily related to (i) employee termination costs, (ii) asset impairment charges associated with restructuring actions, (iii) costs to close facilities, including environmental costs and contract termination penalties, and (iv) gains realized on the sale of land or equipment associated with restructured plants or locations.
- Acquisition and integration-related charges, which include transaction costs, redundant costs incurred during the period of integration, and costs associated with transitioning certain management and business processes to Cabot's processes.
- Indirect tax settlement credits, which includes favorable settlements resulting in the recoveries of indirect taxes.
- Gains (losses) on sale of a business.
- Employee benefit plan settlements, which consist of either charges or benefits associated with the termination of a pension plan or the transfer of a pension plan to a multi-employer plan.
- Gain associated with the bargain purchase of a business.
- Gain realized on the sale of land.

Drivers of Demand and Key Factors Affecting Profitability

Drivers of demand and key factors affecting our profitability differ by segment. In Reinforcement Materials, longer term demand is driven primarily by: i) the number of vehicle miles driven globally; ii) the number of original equipment and replacement tires produced; and iii) the number of automotive builds. Over the past several years, operating results have been driven by a number of factors, including: i) increases or decreases in our sales volumes driven by changes in production levels for tires or industrial rubber products and the level at which we service that demand; ii) changes in raw material costs and our ability to adjust the sales price for our products commensurate with changes in raw material costs; iii) changes in pricing and product mix, which includes customer pricing as well as the mix of products sold or the region in which they are sold; iv) global and regional capacity utilization for carbon black; v) fixed cost savings achieved through restructuring and other cost saving activities; vi) the growth of our volumes and market position in emerging economies; vii) capacity management and technology investments, including the impact of energy utilization and yield improvement technologies at our manufacturing facilities; viii) royalties and technology payments related to our patented elastomer composites technology that is used in tire applications; and ix) changes in energy prices associated with our energy center sales and the cost of utilities.

In Performance Chemicals, longer term demand is driven primarily by the construction and infrastructure, automotive, including sales into batteries for electric vehicles, electronics, inkjet printing, and consumer products industries. In recent years, operating results in Performance Chemicals have been driven by: i) increases or decreases in sales volumes to the industries previously noted; ii) changes in pricing and product mix, which includes customer pricing as well as the mix of products sold or the region in which they are sold; iii) our ability to deliver differentiated products that drive enhanced performance in customers' applications; iv) our ability to obtain value pricing for this differentiation; v) the cost of new capacity; vi) changes in selling prices relative to variations in the cost of raw materials; and vii) the adoption of new products for use in our customers' applications.

Overview of Results for Fiscal 2022

During fiscal 2022, Income (loss) before income taxes and equity in earnings of affiliated companies decreased compared to fiscal 2021 primarily due to the impairment and loss on sale charges related to the divestiture of the Purification Solutions business. This decrease was partially offset by higher earnings in our Reinforcement Materials and Performance Chemicals segments.

Fiscal 2022 compared to Fiscal 2021—Consolidated

Net Sales and Other Operating Revenues and Gross Profit

	Years Ended September 30	
	2022	2021
	(In millions)	
Net sales and other operating revenues	\$ 4,321	\$ 3,409
Gross profit	\$ 885	\$ 799

Net sales increased by \$912 million in fiscal 2022 as compared to fiscal 2021. The increase in net sales was primarily driven by favorable price and product mix (combined \$1.1 billion), higher volumes (\$76 million) across our Reinforcement Materials and Performance Chemicals segments, and increased energy center by-product revenue (\$49 million). These increases were partially offset by the divestiture of our Purification Solutions business (\$160 million) and the unfavorable impact from foreign currency translation (\$108 million). The favorable price and product mix was driven by favorable 2022 calendar year tire customer agreements and higher prices from higher feedstock and energy costs that are generally passed through to our customers in the Reinforcement Materials segment, and targeted growth initiatives and price increases ahead of rising input costs, including raw material and energy, and other costs, including packaging and transportation, in our Performance Chemicals segment. The higher volumes were driven by stronger demand in all regions across our Reinforcement Materials segment and continued momentum in battery materials and inkjet applications, partially offset by plant downtime in our Performance Chemicals segment. The increased energy center by-product revenue was driven by higher energy prices.

Gross profit increased by \$86 million in fiscal 2022 as compared to fiscal 2021. The gross profit increase was primarily due to higher volumes across all regions, higher unit margins in the Reinforcement Materials segment due to favorable pricing and product mix in our 2022 customer agreements and higher unit margins in the Performance Chemicals segment due to price increases and favorable product mix in our specialty carbons and fumed metal oxides product lines.

Selling and Administrative Expenses

	Years Ended September 30	
	2022	2021
	(In millions)	
Selling and administrative expenses	\$ 258	\$ 289

Selling and administrative expenses decreased by \$31 million in fiscal 2022 as compared to fiscal 2021. The decrease was due primarily to a \$17 million benefit from the sale of land in fiscal 2022 and reduced charges related to our legal reserve for respirator matters compared to fiscal 2021.

Research and Technical Expenses

	Years Ended September 30	
	2022	2021
	(In millions)	
Research and technical expenses	\$ 55	\$ 56

Research and technical expenses decreased by \$1 million in fiscal 2022 as compared to fiscal 2021.

Impairment Charges and Loss on Sale

	Years Ended September 30	
	2022	2021
	(In millions)	
Loss on sale of business and asset impairment charge	\$ 207	\$ —

The loss on sale and asset impairment charges associated with the sale of the Purification Solutions business are described in Note D of our Notes to the Consolidated Financial Statements.

Interest and Dividend Income

	Years Ended September 30	
	2022	2021
	(In millions)	
Interest and dividend income	\$ 11	\$ 8

Interest and dividend income in fiscal 2022 increased by \$3 million as compared to fiscal 2021 primarily due to increases in interest rates.

Interest Expense

	Years Ended September 30	
	2022	2021
	(In millions)	
Interest expense	\$ 56	\$ 49

Interest expense increased by \$7 million in fiscal 2022 as compared to fiscal 2021 primarily due to higher interest rates.

Other Income (Expense)

	Years Ended September 30	
	2022	2021
	(In millions)	
Other income (expense)	\$ (9)	\$ (7)

Other expense increased during fiscal 2022 by \$2 million as compared to fiscal 2021. The change was primarily due to unfavorable foreign currency impacts largely due to the significant depreciation of the Argentine peso against the U.S. dollar. This increase was partially offset by benefits from money market investments.

(Provision) Benefit for Income Taxes and Reconciliation of Effective Tax Rate to Operating Tax Rate

	Years Ended September 30			
	2022		2021	
(Dollars in millions)	(Provision) / Benefit for Income Taxes	Rate	(Provision) / Benefit for Income Taxes	Rate
Effective tax rate ⁽¹⁾	\$ (102)	30%	\$ (123)	30%
Less: Non-GAAP tax adjustments ⁽²⁾	32		(4)	
Operating tax rate	<u>\$ (134)</u>	<u>26%</u>	<u>\$ (119)</u>	<u>27%</u>

⁽¹⁾ Refer to the reconciliation of computed tax expense at the federal statutory rate to the Provision (benefit) for income taxes in Note Q of our Notes to the Consolidated Financial Statements.

⁽²⁾ Non-GAAP tax adjustments made to arrive at the operating tax provision include the income tax (expense) benefit on certain items and discrete tax items, as further described above under the heading "Definition of Terms and Non-GAAP Financial Measures".

For the year ended September 30, 2022, the (Provision) benefit for income taxes was a \$102 million expense compared to a \$123 million expense for fiscal 2021. Included in the (Provision) benefit for income taxes for the year ended September 30, 2022, is the tax impact of the divestiture of our Purification Solutions business, and withholding tax accruals on historical and current earnings due to changes in indefinite reinvestment assertion on certain entities. Our income taxes are affected by the mix of earnings in the tax jurisdictions in which we operate, and the presence of valuation allowances in certain tax jurisdictions.

For fiscal 2023, we expect our Operating tax rate to be in the range of 26% to 28%. We are not providing a forward-looking reconciliation of the operating tax rate range with an effective tax rate range because, without unreasonable effort, we are unable to predict with reasonable certainty the matters we would allocate to "certain items," including unusual gains and losses, costs associated with future restructurings, acquisition-related expenses and litigation outcomes. These items are uncertain, depend on various factors, and could have a material impact on the effective tax rate in future periods.

Equity in Earnings of Affiliated Companies and Net Income (Loss) Attributable to Noncontrolling Interest, Net of Tax

	Years Ended September 30	
	2022	2021
	(In millions)	
Equity in earnings of affiliated companies, net of tax	\$ 10	\$ 3
Net income (loss) attributable to noncontrolling interests, net of tax	\$ 34	\$ 36

Equity in earnings of affiliated companies, net of tax, increased by \$7 million in fiscal 2022 compared to fiscal 2021 primarily due to higher profitability at our equity affiliates in India and Venezuela.

Net income (loss) attributable to noncontrolling interests, net of tax, decreased by \$2 million in fiscal 2022 compared to fiscal 2021 primarily due to lower earnings of our joint ventures in China, partially offset by increased earnings of our joint venture in the Czech Republic.

Net Income (Loss) Attributable to Cabot Corporation

In fiscal 2022, we reported net income attributable to Cabot Corporation of \$209 million (\$3.62 earnings per diluted common share). In fiscal 2021, we reported net income attributable to Cabot Corporation of \$250 million (\$4.34 earnings per diluted common share). The decrease in fiscal 2022 was primarily due to the Purification Solutions loss on sale and asset impairment charge, partially offset by higher Total segment EBIT in Reinforcement Materials and Performance Chemicals.

Fiscal 2022 compared to Fiscal 2021—By Business Segment

Income (loss) from continuing operations before income taxes and equity in earnings of affiliated companies, certain items, pre-tax, other unallocated items and Total segment EBIT for fiscal 2022 and 2021 are set forth in the table below. The details of certain items and other unallocated items are shown below and in Note T of our Notes to the Consolidated Financial Statements.

	Years Ended September 30	
	2022	2021
	(In millions)	
Income (loss) from continuing operations before income taxes and equity in earnings of affiliated companies	\$ 335	\$ 406
Less: Certain items, pre-tax	(183)	(34)
Less: Other unallocated items	(124)	(110)
Total segment EBIT	<u>\$ 642</u>	<u>\$ 550</u>

In fiscal 2022, Income (loss) from continuing operations before income taxes and equity in earnings of affiliated companies decreased by \$71 million and Total Segment EBIT increased by \$92 million. The decrease in Income (loss) before income taxes and equity earnings of affiliated companies is primarily due to the Purification Solutions loss on sale and asset impairment charge of \$207 million, partially offset by increased Total segment EBIT of \$92 million and the gain on a bargain purchase acquisition of \$24 million.

Certain Items:

Details of the certain items for fiscal 2022 and 2021 are as follows:

	Years Ended September 30	
	2022	2021
	(In millions)	
Gain on bargain purchase of a business (Note C)	\$ 24	\$ —
Gain on sale of land	17	—
Specialty Fluids divestiture related benefit	5	—
Employee benefit plan settlement and other charges	1	(4)
Loss on sale of business and asset impairment charge (Note D)	(207)	—
Legal and environmental matters and reserves (Note S)	(9)	(25)
Purification Solutions divestiture related charges	(5)	—
Acquisition and integration-related charges	(6)	(5)
Global restructuring activities	(3)	(11)
Indirect tax settlement credits (Note S)	—	12
Other certain items	—	(1)
Total certain items, pre-tax	<u>(183)</u>	<u>(34)</u>
Non-GAAP tax adjustments	32	(4)
Total certain items, net of tax	<u>\$ (151)</u>	<u>\$ (38)</u>

An explanation of these items of expense and income is included in our discussion under the heading "Definition of Terms and Non-GAAP Financial Measures".

Other Unallocated Items:

	Years Ended September 30	
	2022	2021
	(In millions)	
Interest expense	\$ (56)	\$ (49)
Unallocated corporate costs	(59)	(58)
General unallocated income (expense)	1	—
Less: Equity in earnings of affiliated companies, net of tax	10	3
Total other unallocated items	<u>\$ (124)</u>	<u>\$ (110)</u>

A discussion of items that we refer to as “other unallocated items” can be found under the heading “Definition of Terms and Non-GAAP Financial Measures”. The balances of unallocated corporate costs are primarily comprised of expenditures related to managing a public company that are not allocated to the segments and corporate business development costs related to ongoing corporate projects. The balances of General unallocated income (expense) consist of gains (losses) arising from foreign currency transactions, net of other foreign currency risk management activities, interest income, dividend income, and the profit or loss related to the corporate adjustment for unearned revenue.

In fiscal 2022, Total other unallocated items increased by \$14 million as compared to fiscal 2021 primarily due to increased interest expense from higher interest rates and higher earnings in equity affiliates.

Reinforcement Materials

Sales and EBIT for Reinforcement Materials for fiscal 2022 and 2021 are as follows:

	Years Ended September 30	
	2022	2021
	(In millions)	
Reinforcement Materials Sales	\$ 2,575	\$ 1,781
Reinforcement Materials EBIT	\$ 408	\$ 329

In fiscal 2022, sales in Reinforcement Materials increased by \$794 million as compared to fiscal 2021, primarily due to a favorable price and product mix (combined \$799 million) and higher volumes (\$72 million), partially offset by unfavorable impact from foreign currency translation (\$76 million). The favorable price and product mix was primarily due to favorable 2022 calendar year customer agreements and higher feedstock and energy costs that are generally passed through to our customers. The higher volumes in fiscal 2022 were driven by stronger demand across all regions. The unfavorable foreign exchange rate impact was primarily due to the weakening of foreign currencies against the U.S. dollar.

In fiscal 2022, Reinforcement Materials EBIT increased by \$79 million as compared to fiscal 2021. The increase was driven by higher unit margins (\$109 million) and higher volumes (\$31 million), partially offset by higher fixed cost (\$45 million) and unfavorable impact from foreign currency translation (\$16 million). The higher unit margins were primarily driven by favorable 2022 calendar year customer agreements and the benefit of higher energy prices on our energy center and yield benefits. The higher volumes were due to increased demand in all regions. The higher fixed costs were primarily due to increased costs associated with utilities. The unfavorable foreign exchange rate impact was primarily due to the weakening of foreign currencies against the U.S. dollar.

Performance Chemicals

Sales and EBIT for Performance Chemicals for fiscal 2022 and 2021 are as follows:

	Years Ended September 30	
	2022	2021
	(In millions)	
Performance Additives Sales	\$ 1,013	\$ 796
Formulated Solutions Sales	359	352
Performance Chemicals Sales	<u>\$ 1,372</u>	<u>\$ 1,148</u>
Performance Chemicals EBIT	\$ 234	\$ 211

In fiscal 2022, sales in Performance Chemicals increased by \$224 million as compared to fiscal 2021. The increase was primarily due to favorable price and product mix (combined \$251 million) and higher volumes (\$4 million), partially offset by unfavorable impact from foreign currency translation (\$32 million). The favorable price and product mix was due to increased pricing ahead of rising input costs across the segment. The higher volumes were driven by higher sales into battery applications due to increased

demand for our battery materials product line partially offset by lower volumes in our fumed metal oxides product line. The unfavorable foreign exchange rate impact was primarily due to the weakening of foreign currencies against the U.S. dollar.

In fiscal 2022, EBIT in Performance Chemicals increased by \$23 million compared to fiscal 2021 primarily due to higher unit margins (\$64 million) and higher volumes (\$1 million), partially offset by higher fixed cost (\$33 million) and unfavorable impact from foreign currency translation (\$7 million). Higher unit margins were driven by strong pricing and favorable product mix in our specialty carbons and fumed metal oxides product lines. The higher volume was due to increased demand for our battery materials product line partially offset by lower volumes in our fumed metal oxides product line. The unfavorable foreign currency exchange impact was primarily due to the weakening of foreign currencies against the U.S. dollar. Fixed costs increased in support of our growth vectors, higher utilities costs and general inflationary cost increases.

Purification Solutions

Sales and EBIT for Purification Solutions for fiscal 2022 and 2021 are as follows:

	Years Ended September 30	
	2022	2021
	(In millions)	
Purification Solutions Sales	\$ 97	\$ 257
Purification Solutions EBIT	\$ —	\$ 10

We divested the Purification Solutions business in March 2022. Refer to Note D of our Notes to the Consolidated Financial Statements.

Fiscal 2023 Outlook

In Reinforcement Materials, we anticipate stable volumes along with higher pricing in our 2023 calendar year customer agreements to drive year-over-year growth in segment EBIT.

In Performance Chemicals, we anticipate results being negatively impacted in the first half of the fiscal year due to weaker demand for our specialty carbons and fumed metal oxides product lines, particularly in Europe and China. We expect results in the segment to improve throughout the year as destocking comes to an end and demand returns to more normalized levels and sales in our battery materials and inkjet product lines continue to grow.

We also expect headwinds from a strong U.S. dollar that will negatively impact the USD value of our foreign currency results upon translation, and rising interest rates which will increase interest rates on our floating rate debt.

Liquidity and Capital Resources

Overview

Our liquidity position, as measured by cash and cash equivalents plus borrowing availability, decreased by \$250 million during fiscal 2022, primarily due to a higher outstanding commercial paper balance at the end of the period. The higher commercial paper balance was used to fund an increase in net working capital resulting from the impact of rising raw material costs on our inventory balance and higher prices on our accounts receivables balance. As of September 30, 2022, we had cash and cash equivalents of \$206 million and borrowing availability under our revolving credit agreements of \$856 million.

We have access to borrowings under the following two credit agreements:

- \$1 billion unsecured revolving credit agreement (the “U.S. Credit Agreement”) with JPMorgan Chase Bank, N.A., as Administrative Agent, Citibank, N.A., as Syndication Agent, and the other lenders party thereto, which matures in August 2026, subject to a one-year option to extend the maturity, exercisable on or prior to August 6, 2023. The U.S. Credit Agreement supports our issuance of commercial paper, and borrowings under it may be used for working capital, letters of credit and other general corporate purposes.
- €300 million unsecured revolving credit agreement (the “Euro Credit Agreement”, and together with the U.S. Credit Agreement, the “Credit Agreements”), with Wells Fargo Bank, National Association, as Administrative Agent, and the other lenders party thereto, which matures in May 2024 or earlier if the U.S. Credit Agreement should terminate early. Borrowings under the Euro Credit Agreement may be used for the repatriation of earnings of our foreign subsidiaries to the United States, the repayment of indebtedness of our foreign subsidiaries owing to us or any of our subsidiaries and for working capital and general corporate purposes.

As of September 30, 2022, we were in compliance with the debt covenants under the Credit Agreements, which, with limited exceptions, require us to comply on a quarterly basis with a leverage test requiring the ratio of consolidated net debt to consolidated EBITDA not to exceed 3.50 to 1.00. Consolidated net debt is defined as consolidated debt offset by the lesser of (i) unrestricted cash and cash equivalents and (ii) \$150 million.

A significant portion of our business occurs outside the U.S. and our cash generation does not always align geographically with our cash needs. The vast majority of our cash and cash equivalent holdings tend to be held outside the U.S. We generally use a combination of U.S. earnings, repatriation of certain foreign earnings, commercial paper issuances and borrowings under our U.S. Credit Agreement to meet our U.S. cash needs. With the exception of Argentina, which has currency controls that prevent the distribution of cash, we are generally able to move cash throughout the Company through our cash pooling structures, intercompany accounts and/or distributions, as needed. Although we repatriate certain foreign earnings, cash held by foreign subsidiaries is generally considered permanently reinvested and is used to finance the subsidiaries' operational activities and future investments. We usually reduce our commercial paper balance and, if applicable, borrowings under our Credit Agreements, at quarter-end using cash derived from customer collections, settlement of intercompany balances and short-term intercompany loans. If additional funds are needed in the U.S., we expect to be able to repatriate cash, including cash from China, while paying any withholding or other taxes. Changes in tax laws in the U.S. or foreign countries could restrict our ability to transfer funds or impose material costs on such transfers.

As of September 30, 2022, we had \$856 million of availability under our Credit Agreements. As of September 30, 2022, we had \$114 million of borrowings outstanding under the Euro Credit Agreement and no outstanding borrowings under the U.S. Credit Agreement. There was \$322 million and \$71 million of commercial paper outstanding at September 30, 2022 and 2021, respectively.

In June 2022, we issued \$400 million of notes with a coupon of 5% that mature on June 30, 2032. These notes are unsecured and interest is payable semi-annually on June 30 and December 30, commencing on December 30, 2022. The net proceeds of this offering were \$394 million after deducting discounts and issuance costs. We used a portion of these proceeds to repay \$350 million of our notes with a coupon of 3.7% that were scheduled to mature on July 15, 2022.

We anticipate sufficient liquidity from (i) cash on hand; (ii) cash flows from operating activities; and (iii) cash available from the Credit Agreements and our commercial paper program to meet our operational and capital investment needs and financial obligations for the foreseeable future. The liquidity we derive from cash flows from operations is, to a large degree, predicated on our ability to collect our receivables in a timely manner, the cost of our raw materials, and our ability to manage inventory levels.

The following discussion of the changes in our cash balance refers to the various sections of our Consolidated Statements of Cash Flows.

Cash Flows from Operating Activities

Cash provided by operating activities, which consists of net income adjusted for the various non-cash items included in income, changes in working capital and changes in certain other balance sheet accounts, totaled \$100 million in fiscal 2022. Operating activities provided \$257 million of cash in fiscal 2021.

Cash provided by operating activities in fiscal 2022 was driven by business earnings excluding the non-cash impacts of depreciation and amortization of \$146 million, which was partially offset by an increase in net working capital of \$431 million. The increase in net working capital was driven by an increase in accounts receivable due to higher sales and an increase in inventory driven by a higher cost of raw materials, partially offset by an increase in accounts payable.

Cash provided by operating activities in fiscal 2021 was driven by business earnings excluding the non-cash impacts of depreciation and amortization of \$160 million, which was partially offset by an increase in net working capital of \$222 million. The increase in net working capital was driven by an increase in accounts receivable due to higher sales and an increase in inventory driven by a higher cost of raw materials, partially offset by an increase in accounts payable.

Cash Flows from Investing Activities

Investing activities consumed \$118 million of cash in fiscal 2022 compared to \$186 million in fiscal 2021. In fiscal 2022, the use of cash by investing activities primarily consisted of \$211 million of capital expenditures for sustaining and compliance capital projects at our operating facilities as well as growth-related capital, including a capacity expansion project in Performance Chemicals, partially offset by proceeds from the sale of our Purification Solutions business of \$79 million and proceeds from the sale of land adjacent to our Billerica site of \$18 million.

In fiscal 2021, the use of cash by investing activities primarily consisted of \$195 million of capital expenditures for sustaining and compliance capital projects at our operating facilities as well as growth-related capital, including a capacity expansion project in Performance Chemicals.

Capital expenditures for fiscal 2023 are expected to be between \$300 million and \$350 million. Our planned capital spending program for fiscal 2023 is primarily for sustaining, compliance and improvement capital projects at our operating facilities as well as capacity expansion capital expenditures in Performance Chemicals.

Cash Flows from Financing Activities

Financing activities provided \$145 million of cash in fiscal 2022 compared to \$60 million of cash consumed in fiscal 2021. The cash provided by financing activities in fiscal 2022 primarily consisted of net proceeds from long-term debt of \$22 million, which consisted of proceeds of \$394 million less repayments of \$372 million, net proceeds from the issuance of commercial paper of \$250 million, and proceeds from short-term borrowings of \$26 million, partially offset by dividend payments to stockholders of \$84 million, purchases of common stock of \$53 million and dividend payments to noncontrolling interests of \$22 million.

The use of cash by financing activities in fiscal 2021 primarily consisted of dividend payments to stockholders of \$80 million, dividend payments to noncontrolling interests of \$19 million, and net repayments of long-term debt of \$22 million, which consisted of proceeds of \$200 million less repayments of \$222 million, partially offset by net proceeds from the issuance of commercial paper of \$58 million.

Our long-term total debt, of which \$7 million is current, matures at various times as presented in Note I of our Notes to the Consolidated Financial Statements. The weighted-average interest rate on our fixed rate long-term debt was 4.29% as of September 30, 2022.

Share Repurchases

In fiscal 2018, our Board of Directors authorized us to repurchase up to an additional ten million shares of common stock. In fiscal 2022 we repurchased approximately 0.8 million shares of common stock on the open market for \$49 million. We did not repurchase any shares during fiscal 2021. Additionally, during both fiscal 2022 and fiscal 2021 we repurchased 0.1 million shares of our common stock associated with employee tax obligations on stock-based compensation awards for \$4 million and \$3 million, respectively. As of September 30, 2022, we had approximately 4.3 million shares available for repurchase under the Board of Directors' share repurchase authorization.

Dividend Payments

In fiscal 2022 and fiscal 2021, we paid cash dividends on our common stock of \$1.48 and \$1.40 per share, respectively. These cash dividend payments totaled \$84 million and \$80 million in fiscal 2022 and fiscal 2021, respectively.

Employee Benefit Plans

As of September 30, 2022, we had a consolidated pension obligation, net of the fair value of plan assets, of \$29 million, primarily associated with postretirement benefit plan liabilities.

In fiscal 2022, we made cash contributions totaling \$5 million to our pension benefit plans. In fiscal 2023, we expect to make cash contributions of \$4 million to our pension plans.

The \$29 million of unfunded postretirement benefit plan liabilities is comprised of \$16 million for our U.S. and \$13 million for our foreign postretirement benefit plans. These postretirement benefit plans provide certain health care and life insurance benefits for retired employees. Typical of such plans, our postretirement plans are unfunded and, therefore, have no plan assets. We fund these plans as claims or insurance premiums come due. In fiscal 2022, we paid postretirement benefits of \$5 million. For fiscal 2023, our benefit payments for our postretirement plans are expected to be \$3 million.

Contractual Obligations

The following table sets forth our long-term contractual obligations.

	Payments Due by Fiscal Year							Total
	2023	2024	2025	2026	2027	Thereafter		
	(In millions)							
Purchase commitments	\$ 294	\$ 244	\$ 237	\$ 236	\$ 221	\$ 1,960	\$ 3,192	
Long-term debt	4	114	—	250	—	708	1,076	
Fixed interest on long-term debt	41	41	41	41	33	114	311	
Variable interest on long-term debt	4	4	—	—	—	—	8	
Finance leases ⁽¹⁾	5	4	4	4	3	16	36	
Operating leases ⁽¹⁾	16	14	13	11	10	51	115	
Total	<u>\$ 364</u>	<u>\$ 421</u>	<u>\$ 295</u>	<u>\$ 542</u>	<u>\$ 267</u>	<u>\$ 2,849</u>	<u>\$ 4,738</u>	

⁽¹⁾ Lease liabilities include interest.

Purchase Commitments

We have entered into long-term, volume-based purchase agreements primarily for the purchase of raw materials and natural gas with various key suppliers for all of our business segments. Under certain of these agreements the quantity of material being purchased is fixed, but the price we pay changes as market prices change. For purposes of the table above, current purchase prices have been used to quantify total commitments. We have also entered into long-term purchase agreements primarily for services related to information technology, which are not included in the table above, that total \$26 million as of September 30, 2022, the majority of which is expected to be paid within the next 5 years.

Leases

We have entered into various leases as the lessee, primarily related to certain transportation vehicles, warehouse facilities, office space, and machinery and equipment. These leases have remaining lease terms between one and seventeen years, some of which may include options to extend the leases for up to fifteen years or options to terminate the leases. Our land leases have remaining lease terms up to seventy-nine years.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

We are exposed to changes in interest rates and foreign currency exchange rates because we finance certain operations through long- and short-term borrowings and denominate our transactions in a variety of foreign currencies. Changes in these rates may have an impact on future cash flows and earnings. We manage these risks through normal operating and financing activities and, when deemed appropriate, through the use of derivative financial instruments.

We have policies governing our use of derivative instruments, and we do not enter into financial instruments for trading or speculative purposes.

By using derivative instruments, we are subject to credit and market risk. The derivative instruments are booked in our balance sheet at fair value and reflect the asset or liability position as of September 30, 2022. If a counterparty fails to fulfill its performance obligations under a derivative contract, our exposure will equal the fair value of the derivative. Generally, when the fair value of a derivative contract is positive, the counterparty owes Cabot, thus creating a payment risk for Cabot. We minimize counterparty credit or repayment risk by entering into these transactions with major financial institutions of investment grade credit rating. Our exposure to market risk is not hedged in a manner that completely eliminates the effects of changing market conditions on earnings or cash flow.

Foreign Currency Risk

Our international operations are subject to certain risks, including currency exchange rate fluctuations and government actions. We have cross-currency swaps designated as hedges of our net investments in certain Euro denominated subsidiaries. The following table summarizes the principal terms of our cross-currency swaps, including the aggregate notional amount of the swaps, the interest rate payment we receive from and pay to our swap counterparties, the term and fair value at September 30, 2022 and September 30, 2021.

Description	Notional Amount	Interest Rate Received	Interest Rate Paid	Fiscal Year Entered Into	Maturity Year	Fair Value at September 30, 2022	Fair Value at September 30, 2021
Cross Currency Swaps	USD 250 million swapped to EUR 223 million	3.40%	1.94%	2016	2026	\$29 million	\$3 million

We also have foreign currency exposures arising from the denomination of monetary assets and liabilities in foreign currencies other than the functional currency of a given subsidiary as well as the risk that currency fluctuations could affect the dollar value of future cash flows generated in foreign currencies. Accordingly, we use short-term forward contracts to minimize the exposure to foreign currency risk. At September 30, 2022, we had \$42 million in notional foreign currency contracts, which were denominated in Indonesian rupiah and Czech koruna. These forwards had a fair value of less than \$1 million as of September 30, 2022. At September 30, 2021, we had \$48 million in notional foreign currency contracts, which were denominated in Indonesian rupiah and Czech koruna. These forwards had a fair value of less than \$1 million as of September 30, 2021.

In certain situations where we have forecasted purchases under a long-term commitment or forecasted sales denominated in a foreign currency we may enter into appropriate financial instruments in accordance with our risk management policy to hedge future cash flow exposures.

In fiscal 2022, due to the weakening of most foreign currencies against the U.S. dollar, foreign currency translations in the aggregate decreased our business segment EBIT by \$24 million, which affected the results of the Reinforcement Materials and Performance Materials segments. In fiscal 2021, foreign currency translations in the aggregate increased our business segment EBIT by \$10 million, the majority of which affected the results of the Performance Chemicals segment. We recognized a net foreign exchange loss of \$13 million in Other income (expense) in fiscal 2022 from the revaluation of monetary assets and liabilities from transactional currencies to functional currency, largely attributable to changes in the value of the Argentine peso and to a lesser extent Colombian peso. In fiscal 2021, we recognized a net foreign exchange loss of \$6 million in Other income (expense) from the revaluation of monetary assets and liabilities from transactional currencies to functional currency, largely attributable to changes in the value of the Argentine peso and to a lesser extent Czech koruna and Mexican peso.

Item 8. Financial Statements and Supplementary Data

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CABOT CORPORATION
CONSOLIDATED STATEMENTS OF OPERATIONS

	Years Ended September 30		
	2022	2021	2020
	(In millions, except per share amounts)		
Net sales and other operating revenues	\$ 4,321	\$ 3,409	\$ 2,614
Cost of sales	3,436	2,610	2,114
Gross profit	885	799	500
Selling and administrative expenses	258	289	292
Research and technical expenses	55	56	57
Purification Solutions loss on sale and asset impairment charge (Note D)	207	—	—
Gain on bargain purchase of a business (Note C)	(24)	—	—
Specialty Fluids loss on sale and asset impairment charge	—	—	1
Marshall Mine loss on sale and asset impairment charge	—	—	129
Income (loss) from operations	389	454	21
Interest and dividend income	11	8	8
Interest expense	(56)	(49)	(53)
Other income (expense)	(9)	(7)	(9)
Income (loss) from continuing operations before income taxes and equity in earnings of affiliated companies	335	406	(33)
(Provision) benefit for income taxes	(102)	(123)	(191)
Equity in earnings of affiliated companies, net of tax	10	3	3
Net income (loss)	243	286	(221)
Net income (loss) attributable to noncontrolling interests, net of tax of \$8, \$10 and \$4	34	36	17
Net income (loss) attributable to Cabot Corporation	<u>\$ 209</u>	<u>\$ 250</u>	<u>\$ (238)</u>
Weighted-average common shares outstanding:			
Basic	56.5	56.7	56.6
Diluted	56.9	56.8	56.6
Earnings (loss) per common share:			
Basic	\$ 3.65	\$ 4.35	\$ (4.21)
Diluted	\$ 3.62	\$ 4.34	\$ (4.21)

The accompanying notes are an integral part of these consolidated financial statements.

CABOT CORPORATION
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
Net income (loss)	\$ 243	\$ 286	\$ (221)
Other comprehensive income (loss), net of tax			
Foreign currency translation adjustment, net of tax	(175)	52	42
Derivatives: net investment hedges			
(Gains) losses reclassified to interest expense, net of tax	(6)	(5)	(5)
(Gains) losses excluded from effectiveness testing and amortized to interest expense, net of tax	2	2	2
Pension and other postretirement benefit liability adjustments, net of tax	14	20	9
Other comprehensive income (loss), net of tax of \$3, \$8 and \$1	(165)	69	48
Comprehensive income (loss)	78	355	(173)
Net income (loss) attributable to noncontrolling interests, net of tax	34	36	17
Foreign currency translation adjustment attributable to noncontrolling interests, net of tax	(15)	7	5
Comprehensive income (loss) attributable to noncontrolling interests	19	43	22
Comprehensive income (loss) attributable to Cabot Corporation	<u>\$ 59</u>	<u>\$ 312</u>	<u>\$ (195)</u>

The accompanying notes are an integral part of these consolidated financial statements.

**CABOT CORPORATION
CONSOLIDATED BALANCE SHEETS
ASSETS**

	September 30	
	2022	2021
	(In millions, except share and per share amounts)	
Current assets:		
Cash and cash equivalents	\$ 206	\$ 168
Accounts and notes receivable, net of reserve for doubtful accounts of \$3 and \$4	836	645
Inventories	664	523
Prepaid expenses and other current assets	114	89
Total current assets	<u>1,820</u>	<u>1,425</u>
Property, plant and equipment	3,554	3,885
Accumulated depreciation	(2,284)	(2,509)
Net property, plant and equipment	<u>1,270</u>	<u>1,376</u>
Goodwill	129	140
Equity affiliates	20	40
Intangible assets, net	63	100
Deferred income taxes	45	53
Other assets	178	172
Total assets	<u>\$ 3,525</u>	<u>\$ 3,306</u>

The accompanying notes are an integral part of these consolidated financial statements.

CABOT CORPORATION
CONSOLIDATED BALANCE SHEETS
LIABILITIES AND STOCKHOLDERS' EQUITY

	September 30	
	2022	2021
	(In millions, except share and per share amounts)	
Current liabilities:		
Short-term borrowings	\$ 347	\$ 72
Accounts payable and accrued liabilities	707	667
Income taxes payable	44	35
Current portion of long-term debt	7	373
Total current liabilities	1,105	1,147
Long-term debt	1,089	717
Deferred income taxes	65	73
Other liabilities	234	279
Commitments and contingencies (Note S)		
Stockholders' equity:		
Preferred stock:		
Authorized: 2,000,000 shares of \$1 par value, Issued and Outstanding: None and none	—	—
Common stock:		
Authorized: 200,000,000 shares of \$1 par value, Issued: 56,385,963 and 56,870,237 shares, Outstanding: 56,248,559 and 56,726,818 shares	56	57
Less cost of 137,404 and 143,419 shares of common treasury stock	(4)	(4)
Additional paid-in capital	1	24
Retained earnings	1,284	1,159
Accumulated other comprehensive income (loss)	(439)	(289)
Total Cabot Corporation stockholders' equity	898	947
Noncontrolling interests	134	143
Total stockholders' equity	1,032	1,090
Total liabilities and stockholders' equity	\$ 3,525	\$ 3,306

The accompanying notes are an integral part of these consolidated financial statements.

CABOT CORPORATION
CONSOLIDATED STATEMENTS OF CASH FLOWS

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
Cash Flows from Operating Activities:			
Net income (loss)	\$ 243	\$ 286	\$ (221)
Adjustments to reconcile net income (loss) to cash provided by operating activities:			
Depreciation and amortization	146	160	158
Purification Solutions loss on sale and asset impairment charge	207	—	—
Gain on bargain purchase of a business	(24)	—	—
Marshall Mine loss on sale and asset impairment charge	—	—	129
Gain on sale of land	(17)	—	—
Deferred tax provision (benefit)	(40)	9	130
Employee benefit plan settlement	(1)	5	4
Equity in net income of affiliated companies	(10)	(3)	(3)
Share-based compensation	23	21	9
Other non-cash (income) expense	20	21	8
Cash dividends received from equity affiliates	1	2	1
Changes in assets and liabilities:			
Accounts and notes receivable	(287)	(215)	126
Inventories	(259)	(174)	114
Prepaid expenses and other current assets	(25)	(37)	(7)
Accounts payable and accrued liabilities	115	167	(55)
Income taxes payable	15	14	(5)
Other liabilities	(7)	1	(11)
Cash provided by operating activities	<u>100</u>	<u>257</u>	<u>377</u>
Cash Flows from Investing Activities:			
Additions to property, plant and equipment	(211)	(195)	(200)
Proceeds from sale of Purification Solutions business	79	—	—
Cash paid for acquisition of business, net of cash acquired of \$5, \$— and \$1	(9)	—	(92)
Proceeds from sale of land	18	—	—
Other	5	9	4
Cash used in investing activities	<u>(118)</u>	<u>(186)</u>	<u>(288)</u>
Cash Flows from Financing Activities:			
Increase (decrease) in short-term borrowings	26	—	—
Proceeds from (repayments of) issuance of commercial paper, net	250	58	(19)
Proceeds from long-term debt, net of issuance costs	394	200	444
Repayments of long-term debt	(372)	(222)	(410)
Purchases of common stock	(53)	(3)	(44)
Proceeds from sales of common stock	6	6	3
Cash dividends paid to noncontrolling interests	(22)	(19)	(26)
Cash dividends paid to common stockholders	(84)	(80)	(80)
Cash provided by (used in) financing activities	<u>145</u>	<u>(60)</u>	<u>(132)</u>
Effects of exchange rate changes on cash	(91)	8	25
Increase (decrease) in cash, cash equivalents and restricted cash	36	19	(18)
Cash, cash equivalents and restricted cash at beginning of year	170	151	169
Cash, cash equivalents and restricted cash at end of year	<u>\$ 206</u>	<u>\$ 170</u>	<u>\$ 151</u>

The following table presents the Company's cash, cash equivalents and restricted cash by category within the Consolidated Balance Sheets:

Cash and cash equivalents	\$ 206	\$ 168	\$ 151
Restricted cash classified within Prepaid expenses and other current assets	—	2	—
Cash, cash equivalents and restricted cash	<u>\$ 206</u>	<u>\$ 170</u>	<u>\$ 151</u>

Non-cash investing activities and supplemental cash flow information:

Additions to property, plant and equipment included in Accounts payable and accrued liabilities	24	\$ 41	\$ 29
Income taxes paid	129	\$ 93	\$ 71
Interest paid	46	\$ 41	\$ 48

The accompanying notes are an integral part of these consolidated financial statements.

CABOT CORPORATION
CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY
(In millions, except shares in thousands and per share amounts)

	Common Stock, Net of Treasury Stock		Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Total Cabot Corporation Stockholders' Equity	Noncontrolling Interests	Total Stockholders' Equity
	Shares	Cost						
Balance at September 30, 2019	57,081	\$ 52	\$ —	\$ 1,337	\$ (391)	\$ 998	\$ 136	\$ 1,134
Net income (loss)			(238)			(238)	17	(221)
Adoption of accounting standards			3		(3)			
Total other comprehensive income (loss)					43	43	5	48
Cash dividends declared to noncontrolling interests							(35)	(35)
Cash dividends declared to common stockholders, \$1.40 per share			(80)			(80)		(80)
Issuance of stock under equity compensation plans	330	2	1			3		3
Share-based compensation			9			9		9
Purchase and retirement of common stock	(944)	(1)	(10)	(33)		(44)		(44)
Balance at September 30, 2020	56,467	53	—	989	(351)	691	123	814
Net income (loss)				250		250	36	286
Total other comprehensive income (loss)					62	62	7	69
Cash dividends declared to noncontrolling interests							(23)	(23)
Cash dividends declared to common stockholders, \$1.40 per share				(80)		(80)		(80)
Issuance of stock under equity compensation plans	317	—	6			6		6
Share-based compensation			21			21		21
Purchase and retirement of common stock	(57)	—	(3)			(3)		(3)
Balance at September 30, 2021	56,727	53	24	1,159	(289)	947	143	1,090
Net income (loss)				209		209	34	243
Total other comprehensive income (loss)					(150)	(150)	(15)	(165)
Cash dividends declared to noncontrolling interests							(28)	(28)
Cash dividends declared to common stockholders, \$1.48 per share				(84)		(84)		(84)
Issuance of stock under equity compensation plans	359	—	6			6		6
Share-based compensation			23			23		23
Purchase and retirement of common stock	(837)	(1)	(52)			(53)		(53)
Balance at September 30, 2022	56,249	\$ 52	\$ 1	\$ 1,284	\$ (439)	\$ 898	\$ 134	\$ 1,032

The accompanying notes are an integral part of these consolidated financial statements.

Notes to the Consolidated Financial Statements

Note A. Significant Accounting Policies

The consolidated financial statements have been prepared in conformity with accounting principles generally accepted in the United States (“U.S. GAAP”). The significant accounting policies of Cabot Corporation (“Cabot” or “the Company”) are described below.

Unless otherwise indicated, all disclosures and amounts in the Notes to the Consolidated Financial Statements relate to the Company’s continuing operations.

Principles of Consolidation

The consolidated financial statements include the accounts of Cabot and its wholly-owned subsidiaries and majority-owned and controlled subsidiaries. Additionally, Cabot considers consolidation of entities over which control is achieved through means other than voting rights, of which there were none in the periods presented. Intercompany transactions have been eliminated in consolidation.

Cash and Cash Equivalents

Cash equivalents include all highly liquid investments with a maturity of three months or less at date of acquisition. Cabot continually assesses the liquidity of cash equivalents and, as of September 30, 2022, has determined that they are readily convertible to cash.

Inventories

Inventories are stated at the lower of cost or net realizable value. The cost of inventories is determined using the first-in, first-out method.

Cabot periodically reviews inventory for both potential obsolescence and potential declines in anticipated selling prices. In this review, the Company makes assumptions about the future demand for and market value of the inventory, and based on these assumptions estimates the amount of any obsolete, unmarketable, slow moving, or overvalued inventory. Cabot writes down the value of these inventories by an amount equal to the difference between the cost of the inventory and its estimated net realizable value.

Investments

The Company has investments in equity affiliates and marketable securities. As circumstances warrant, all investments are subject to periodic impairment reviews. Unless consolidation is required, investments in equity affiliates, where Cabot generally owns between 20% and 50% of the affiliate, are accounted for using the equity method. Cabot records its share of the equity affiliate’s results of operations based on its percentage of ownership of the affiliate. Dividends declared from equity affiliates are a return on investment and are recorded as a reduction to the equity investment value. At September 30, 2022 and 2021, Cabot had equity affiliate investments of \$20 million and \$40 million, respectively. Dividends declared and received from these investments were \$1 million, \$5 million and \$3 million in fiscal 2022, 2021 and 2020, respectively.

Intangible Assets and Goodwill Impairment

The Company records tangible and intangible assets acquired and liabilities assumed in business combinations under the acquisition method of accounting. Amounts paid for an acquisition are allocated to the assets acquired and liabilities assumed based on their fair values at the date of acquisition. The Company uses assumptions and estimates in determining the fair value of assets acquired and liabilities assumed in a business combination. The determination of the fair value of intangible assets requires the use of significant judgment with regard to assumptions used in the valuation model. The Company estimates the fair value of identifiable acquisition-related intangible assets principally based on projections of cash flows that will arise from these assets. The projected cash flows are discounted to determine the fair value of the assets at the dates of acquisition.

Definite-lived intangible assets, which are comprised of trademarks, customer relationships and developed technologies, are amortized over their estimated useful lives and are reviewed for impairment when indication of potential impairment exists, such as a significant reduction in cash flows associated with the assets.

Goodwill is comprised of the purchase price of business acquisitions in excess of the fair value assigned to the net tangible and identifiable intangible assets acquired. Goodwill is not amortized and is subject to impairment testing annually, or when events or changes in the business environment indicate that the carrying value of the reporting unit may exceed its fair value.

A reporting unit, for the purpose of the impairment test, is at or below the operating segment level, and constitutes a business for which discrete financial information is available and regularly reviewed by segment management. Reinforcement Materials, and the fumed metal oxides, specialty compounds, and battery materials product lines within Performance Chemicals, which are considered separate reporting units, carry the Company's goodwill balances as of September 30, 2022.

For the purpose of the goodwill impairment test, the Company first assesses qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If an initial qualitative assessment identifies that it is more likely than not that the carrying value of a reporting unit exceeds its estimated fair value, an additional quantitative evaluation is performed. Alternatively, the Company may elect to proceed directly to the quantitative goodwill impairment test. If based on the quantitative evaluation the fair value of the reporting unit is less than its carrying amount, a goodwill impairment loss would result. The goodwill impairment loss would be the amount by which the carrying value of the reporting unit, including goodwill, exceeds its fair value, limited to the total amount of goodwill allocated to that reporting unit. The fair value of a reporting unit is based on discounted estimated future cash flows. The assumptions used to estimate fair value include management's best estimates of future growth rates, operating cash flows, capital expenditures and discount rates over an estimate of the remaining operating period at the reporting unit level. The fair value is also benchmarked against the value calculated from a market approach using the guideline public company method. Based on the Company's most recent annual goodwill impairment test performed as of August 31, 2022, the fair values of the Reinforcement Materials, fumed metal oxides, specialty compounds, and battery materials reporting units were substantially in excess of their carrying values.

Long-lived Assets Impairment

The Company's long-lived assets primarily include property, plant and equipment, and intangible assets. The carrying values of long-lived assets are reviewed for impairment whenever events or changes in business circumstances indicate that the carrying amount of an asset may not be recoverable.

To test for impairment of assets, the Company generally uses a probability-weighted estimate of the future undiscounted net cash flows of the assets over their remaining lives to determine if the value of the asset is recoverable. Long-lived assets are grouped with other assets and liabilities at the lowest level for which independent identifiable cash flows are determinable.

An asset impairment is recognized when the carrying value of the asset is not recoverable based on the analysis described above, in which case the asset is written down to its fair value. If the asset does not have a readily determinable market value, a discounted cash flow model may be used to determine the fair value of the asset. In circumstances when an asset does not have separate identifiable cash flows, an impairment charge is recorded when the Company no longer intends to use the asset.

Property, Plant and Equipment

Property, plant and equipment are recorded at cost. Depreciation of property, plant and equipment is calculated using the straight-line method over the estimated useful lives of the related assets. The depreciable lives for buildings, machinery and equipment, and other fixed assets are generally between twenty and twenty-five years, ten and twenty-five years, and three and twenty-five years, respectively. The cost and accumulated depreciation for property, plant and equipment sold, retired, or otherwise disposed of are removed from the Consolidated Balance Sheets and resulting gains or losses are included in earnings in the Consolidated Statements of Operations. Expenditures for repairs and maintenance are charged to expenses as incurred. Expenditures for major renewals and betterments, which significantly extend the useful lives of existing plant and equipment, are capitalized and depreciated.

Cabot capitalizes interest costs when they are part of the cost of acquiring and constructing certain assets that require a period of time to prepare for their intended use. During fiscal 2022, 2021 and 2020, Cabot capitalized \$3 million, \$1 million and \$2 million of interest costs, respectively. These amounts are amortized over the lives of the related assets when they are placed in service.

Asset Retirement Obligations

Cabot estimates incremental costs for special handling, removal and disposal of materials that may or will give rise to conditional asset retirement obligations ("ARO") and then discounts the expected costs back to the current year using a credit adjusted risk free rate. Cabot recognizes ARO liabilities and costs when the timing and/or settlement can be reasonably estimated. In certain instances, Cabot has not recorded a reserve for AROs because the timing of disposal of the underlying asset is unknown. The ARO reserves were \$10 million and \$19 million at September 30, 2022 and 2021, respectively. The decrease was primarily driven by the sale of the Purification Solutions business. The ARO balances are included in Accounts payable and accrued liabilities and Other liabilities on the Consolidated Balance Sheets.

Foreign Currency Translation

The functional currency of the majority of Cabot's foreign subsidiaries is the local currency in which the subsidiary operates. Assets and liabilities of foreign subsidiaries are translated into U.S. dollars at exchange rates in effect at the balance sheet dates. Income and expense items are translated at average monthly exchange rates during the year. The functional currency of Cabot's foreign subsidiaries that operate in a highly inflationary economy is the U.S. dollar. Cabot's operations in highly inflationary economies are not material.

Unrealized currency translation adjustments ("CTA") are included as a separate component of Accumulated other comprehensive income (loss) ("AOCI") within stockholders' equity. Realized and unrealized foreign currency gains and losses arising from transactions denominated in currencies other than the subsidiary's functional currency are reflected in earnings with the exception of (i) intercompany transactions considered to be of a long-term investment nature; (ii) income taxes upon future repatriation of unremitted earnings from non-U.S. subsidiaries that are not indefinitely reinvested; and (iii) foreign currency borrowings designated as net investment hedges. Gains or losses arising from these transactions are included within the CTA component of Other comprehensive income (loss). In fiscal 2022, 2021 and 2020, net foreign currency transaction loss of \$13 million, \$6 million, and \$6 million, respectively, is included in Other income (expense) in the Consolidated Statements of Operations.

Share Repurchases

Periodically, Cabot repurchases shares of the Company's common stock in the open market or in privately negotiated transactions under the authorization approved by the Board of Directors. The Company retires the repurchased shares and records the excess of the purchase price over par value to additional paid-in capital ("APIC") until such amount is reduced to zero and then charges the remainder against retained earnings.

Financial Instruments

Cabot's financial instruments consist primarily of cash and cash equivalents, accounts and notes receivable, investments, accounts payable and accrued liabilities, short-term and long-term debt, and derivative instruments. The carrying values of Cabot's financial instruments approximate fair value with the exception of fixed rate long-term debt, which is recorded at amortized cost. The fair values of the Company's financial instruments are based on quoted market prices, if such prices are available. In situations where quoted market prices are not available, the Company relies on valuation models to derive fair value. Such valuations take into account the ability of the financial counterparty to perform and the Company's own credit risk.

Cabot uses derivative financial instruments primarily for purposes of hedging the exposures to fluctuations in foreign currency exchange rates, which exist as part of its on-going business operations. Cabot does not enter into derivative contracts for speculative purposes, nor does it hold or issue any derivative contracts for trading purposes. All derivatives are recognized on the Consolidated Balance Sheets at fair value. Where Cabot has a legal right to offset derivative settlements under a master netting agreement with a counterparty, derivatives with that counterparty are presented on a net basis. The changes in the fair value of derivatives are recorded in either earnings or AOCI, depending on whether or not the instrument is designated as part of a hedge transaction and, if designated as part of a hedge transaction, the type of hedge transaction. The gains or losses on derivative instruments reported in AOCI are reclassified to earnings in the period in which earnings are affected by the underlying hedged item. The ineffective portion of all hedges is recognized in earnings during the period in which the ineffectiveness occurs.

In accordance with Cabot's risk management strategy, the Company may enter into certain derivative instruments that may not be designated as hedges for hedge accounting purposes. Although these derivatives are not designated as hedges, the Company believes that such instruments are closely correlated with the underlying exposure, thus managing the associated risk. The Company records in earnings the gains or losses from changes in the fair value of derivative instruments that are not designated as hedges. Cash movements associated with these instruments are presented in the Consolidated Statements of Cash Flows as Cash Flows from Operating Activities because the derivatives are designed to mitigate risk to the Company's cash flow from operations.

Revenue Recognition

Cabot recognizes revenue when its customers obtain control of promised goods or services. The revenue recognized is the amount of consideration which the Company expects to receive in exchange for those goods or services. The Company's contracts with customers are generally for products only and do not include other performance obligations. Generally, Cabot considers purchase orders, which in some cases are governed by master supply agreements, to be contracts with customers. The transaction price as specified on the purchase order or sales contract is considered the standalone selling price for each distinct product. To determine the transaction price at the time when revenue is recognized, the Company evaluates whether the price is subject to adjustments, such as for returns, discounts or volume rebates, which are stated in the customer contract, to determine the net consideration to which the Company expects to be entitled. Revenue from product sales is recognized based on a point in time model when control of the product is transferred to the customer, which typically occurs upon shipment or delivery of the product

to the customer and title, risk and rewards of ownership have passed to the customer. The Company has an immaterial amount of revenue that is recognized over time. Payment terms typically range from zero to ninety days.

Shipping and handling activities that occur after the transfer of control to the customer are billed to customers and are recorded as sales revenue, as the Company considers these to be fulfillment costs. Shipping and handling costs are expensed in the period incurred and included in Cost of sales within the Consolidated Statement of Operations. Taxes collected on sales to customers are excluded from the transaction price.

The Company generally provides a warranty that its products will substantially conform to the identified specifications. The Company's liability typically is limited to either a credit equal to the purchase price or replacement of the non-conforming product. Returns under warranty have historically been immaterial.

The Company does not have contract assets or liabilities that are material.

When the period of time between the transfer of control of the goods and the time the customer pays for the goods is one year or less, the Company does not consider there to be a significant financing component associated with the contract.

Cost of Sales

Cost of sales consists of the cost of raw and packaging materials, direct manufacturing costs, depreciation, internal transfer costs, inspection costs, inbound and outbound freight and shipping and handling costs, plant purchasing and receiving costs and other overhead expenses necessary to manufacture the products.

Accounts and Notes Receivable

Trade receivables are recorded at the invoiced amount and generally do not bear interest. Trade receivables in China may at certain times be settled with the receipt of bank issued non-interest bearing notes. These notes totaled \$8 million and \$5 million as of September 30, 2022 and 2021, respectively, and are included in Accounts and notes receivable on the Company's Consolidated Balance Sheets. Cabot periodically sells a portion of these bank notes and other customer receivables at a discount and such sales are accounted for as asset sales. The Company does not have any continuing involvement with these notes or other customer receivables after the sale. The difference between the proceeds from the sale and the carrying value of these assets is recognized as a loss on the sale of receivables and is included in Other income (expense) in the accompanying Consolidated Statements of Operations. During fiscal year 2022, 2021, and 2020, the Company recorded charges of \$3 million, \$2 million, and \$2 million, respectively, for the sale of these assets.

Cabot maintains allowances for doubtful accounts based on an assessment of the collectability of specific customer accounts, the aging of accounts receivable and other economic information on both a historical and prospective basis. Customer account balances are charged against the allowance when it is probable the receivable will not be recovered. There were no material changes in the allowance for any of the years presented. There is no material off-balance sheet credit exposure related to customer receivable balances.

Stock-based Compensation

Cabot recognizes compensation expense for stock-based awards granted to employees using the fair value method. Under the fair value recognition provisions, stock-based compensation cost is measured at the grant date based on the fair value of the award, and is recognized as expense over the service period, which generally represents the vesting period, and includes an estimate of what level of performance the Company will achieve for Cabot's performance-based stock awards. Cabot calculates the fair value of its stock options using the Black-Scholes option pricing model. The fair value of restricted stock units is determined using the closing price of Cabot stock on the day of the grant. The Company recognizes forfeitures as they occur.

Selling and Administrative Expenses

Selling and administrative expenses consist of salaries and fringe benefits of sales and office personnel, general office expenses and other expenses not directly related to manufacturing operations.

Research and Technical Expenses

Research and technical expenses include salaries, equipment and material expenditures, and contractor fees and are expensed as incurred.

Pensions and Other Postretirement Benefits

The Company recognizes the funded status of defined benefit pension and other postretirement benefit plans as an asset or liability. This amount is defined as the difference between the fair value of plan assets and the benefit obligation. Pension and post-retirement benefit costs other than service cost are included in Other income (expense) in the Consolidated Statement of Operations. Service cost is included with other employee compensation costs within Cost of sales, Selling and administrative expenses, or Research and technical expenses. The Company is required to recognize as a component of Other comprehensive income (loss), net of tax, the actuarial gains and losses and prior service costs and credits that arise but were not previously required to be recognized as components of net periodic benefit cost. Other comprehensive income (loss) is adjusted as these amounts are later recognized in income as components of net periodic benefit cost.

Accumulated Other Comprehensive Income (Loss)

AOCI, which is included as a component of stockholders' equity, includes unrealized gains or losses on derivative instruments, currency translation adjustments in foreign subsidiaries and pension and post-retirement related adjustments.

Income Taxes

Deferred income taxes are determined based on the estimated future tax effects of differences between financial statement carrying amounts and the tax bases of existing assets and liabilities. Deferred tax assets are recognized to the extent that realization of those assets is considered to be more likely than not. A valuation allowance is established for deferred taxes when it is more likely than not that all or a portion of the deferred tax assets will not be realized. Provisions are made for the U.S. income tax liability and additional non-U.S. taxes on the undistributed earnings of non-U.S. subsidiaries, except for amounts Cabot has designated to be indefinitely reinvested.

Cabot records benefits for uncertain tax positions based on an assessment of whether the position is more likely than not to be sustained by the taxing authorities. If this threshold is not met, no tax benefit of the uncertain tax position is recognized. If the threshold is met, the tax benefit that is recognized is the largest amount that is greater than 50% likely of being realized upon ultimate settlement. This analysis presumes the taxing authorities' full knowledge of the positions taken and all relevant facts, but does not consider the time value of money. The Company also accrues for interest and penalties on its uncertain tax positions and includes such charges in its income tax provision in the Consolidated Statements of Operations.

Contingencies

Cabot accrues costs related to contingencies when it is probable that a liability has been incurred and the amount can be reasonably estimated. Contingencies could arise from litigation, environmental remediation or contractual arrangements. When a single liability amount cannot be reasonably estimated, but a range can be reasonably estimated, Cabot accrues the amount that reflects the best estimate within that range or the low end of the range if no estimate within the range would be considered more likely than any other estimate. The amount accrued is determined through the evaluation of various information, which could include claims, settlement offers, demands by government agencies, estimates performed by independent third parties, identification of other responsible parties and an assessment of their ability to contribute, and our prior experience. Cabot does not reduce its estimated liability for possible recoveries from insurance carriers. Proceeds from insurance carriers are recorded when realized by either the receipt of cash or a contractual agreement.

Use of Estimates

The preparation of consolidated financial statements in conformity with U.S. GAAP requires management to make certain estimates and assumptions that affect the reported amount of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reported period. Actual results could differ from those estimates.

Note B. Recent Accounting Pronouncements

Recently Adopted Accounting Standards

In December 2019, the FASB issued a new standard Simplifying the Accounting for Income Taxes. The new guidance simplifies the accounting for income taxes by removing several exceptions in the current standard and adding guidance to reduce complexity in certain areas. The new standard is effective for fiscal years beginning after December 15, 2020 and early adoption is permitted. The Company adopted this standard on October 1, 2021. The adoption of this standard did not materially impact the Company's Consolidated Financial Statements.

Recently Issued Accounting Pronouncements

In March 2020, the FASB issued a new standard on Reference Rate Reform, which provides temporary optional expedients and exceptions to the existing guidance on contract modifications and hedge accounting to ease the financial reporting burdens related to the expected market transition from the London Interbank Offered Rate (“LIBOR”) and other interbank offered rates to alternative reference rates. The standard was effective upon issuance and may generally be applied through December 31, 2022 to any new or amended contracts, hedging relationships, and other transactions that reference LIBOR. As outlined in Note I, *Debt and Other Obligations*, the Company amended and restated credit agreements to align with the customary LIBOR replacement language. As such, the application of the expedients did not have an impact on the Consolidated Financial Statements.

In August 2022, the U.S. government enacted the Inflation Reduction Act which, among other things, provides for a 1% excise tax on stock repurchases. The Company is currently evaluating the provisions of the act but does not anticipate these provisions will have a material effect on its Consolidated Financial Statements, or its share repurchase program.

In November 2022, the FASB issued a new standard on the disclosure of supplier financing programs. The new standard requires qualitative and quantitative disclosure as to the nature and potential magnitude of such programs in addition to program activity and changes for the periods presented. The standard is effective for fiscal years beginning after December 15, 2022 and early adoption is permitted. The Company is currently evaluating the timing of adoption and the impact of the adoption of this standard on its Consolidated Financial Statements.

Note C. Acquisitions

Tokai Carbon (Tianjin) Co.

On February 28, 2022, the Company purchased 100% of the registered capital of Tokai Carbon (Tianjin) Co., a carbon black manufacturing facility, from Tokai Carbon Group for a net purchase price of \$9 million, consisting of cash consideration of \$14 million, including customary post-closing adjustments, and net of \$5 million of cash acquired.

The final allocation of the purchase price and calculation of the Gain on bargain purchase of a business set forth below was based on estimates of the fair value of assets and liabilities acquired as of February 28, 2022.

	(In millions)
Fair value of asset acquired	
Cash	\$ 5
Accounts and notes receivable	5
Inventories	11
Prepaid expenses and other current assets	7
Property, plant and equipment	12
Amounts attributable to assets acquired	40
Fair value of liabilities assumed	
Accounts payable and accrued liabilities	(2)
Amounts attributable to liabilities assumed	(2)
Total identifiable net assets	38
Cash Consideration	14
Gain on bargain purchase of a business	\$ 24

The excess of the fair value of the net assets over the purchase price was recorded as a gain of \$24 million. The Gain on bargain purchase of a business arose primarily due to necessary equipment upgrades that will be required after the purchase to continue to utilize the existing assets.

Shenzhen Sanshun Nano New Materials Co., Ltd

On April 1, 2020, the Company purchased Shenzhen Sanshun Nano New Materials Co., Ltd (“SUSN”), a leading carbon nanotube producer, for a purchase price of \$100 million, consisting of: (i) cash consideration of \$84 million, net of \$1 million acquired (ii) contingent consideration of \$3 million paid over the two-year period ending March 31, 2022 upon the satisfaction of certain milestones, and (iii) the assumed debt of \$13 million. The debt the Company assumed in the transaction was repaid in June 2020. The operating results of SUSN are included in the results of the Company's Performance Chemicals segment.

Note D. Divestitures

Sale of Purification Solutions Business

On March 1, 2022, the Company completed the sale of its Purification Solutions business, a reporting segment of the Company, to an affiliate of funds advised by One Equity Partners for total expected cash proceeds of approximately \$89 million, net of \$7 million cash transferred. Upon completion of the sale, the Company received net cash proceeds of \$79 million and recorded a receivable for \$10 million, which are subject to customary post-closing adjustments. The \$10 million receivable is included in Accounts and notes receivable on the Consolidated Balance Sheet at September 30, 2022. The Company expects to settle this receivable in fiscal 2023.

The Company recognized a pre-tax impairment charge of \$197 million during the first quarter of fiscal 2022 and a pre-tax loss on sale of the Purification Solutions business of \$10 million during fiscal 2022. The total after-tax loss on sale and impairment charge was \$171 million for fiscal 2022.

Sale of Marshall Mine

In September 2020, the Company entered into an agreement to sell its lignite mine located in Marshall, Texas to ADA Carbon Solutions, LLC (“ADACS”) for a nominal amount. As part of the transaction, the Company agreed to fund a portion of the costs ADACS expects to incur to close the mine. Additionally, in conjunction with the sale of the mine, the Purification Solutions business entered into a long-term supply agreement with ADACS, a producer of lignite-based activated carbon, which included an agreement for the Company to fund certain capital expenditures. These liabilities totaled \$11 million, which the Company settled in full with ADACS during the second quarter of fiscal 2022 in connection with the sale of the Purification Solutions business.

Note E. Inventories

Inventories, net of obsolete, unmarketable and slow moving reserves, are as follows:

	September 30	
	2022	2021
	(In millions)	
Raw materials	\$ 182	\$ 168
Finished goods	427	300
Other ⁽¹⁾	55	55
Total	<u>\$ 664</u>	<u>\$ 523</u>

⁽¹⁾ Other inventory is comprised of certain spare parts and supplies.

At September 30, 2022 and 2021, total inventory reserves were \$9 million and \$20 million, respectively.

Note F. Property, Plant and Equipment

Property, plant and equipment consists of the following:

	September 30	
	2022	2021
	(In millions)	
Land and land improvements	\$ 75	\$ 114
Buildings	553	575
Machinery and equipment	2,473	2,765
Other	229	241
Construction in progress	224	190
Total property, plant and equipment	3,554	3,885
Less: Accumulated depreciation	(2,284)	(2,509)
Net property, plant and equipment	<u>\$ 1,270</u>	<u>\$ 1,376</u>

Depreciation expense for fiscal 2022, 2021, and 2020 was \$140 million, \$152 million and \$151 million, respectively.

Note G. Goodwill and Intangible Assets

The carrying amount of goodwill attributable to each reportable segment with goodwill balances and the changes in those balances during the fiscal year ended September 30, 2022 are as follows:

	Reinforcement Materials	Performance Chemicals	Total
	(In millions)		
Balance at September 30, 2021 ⁽¹⁾	\$ 48	\$ 92	\$ 140
Foreign currency impact	(2)	(9)	(11)
Balance at September 30, 2022	<u>\$ 46</u>	<u>\$ 83</u>	<u>\$ 129</u>

⁽¹⁾ The balance as of September 30, 2021 included \$444 million of accumulated impairment losses associated with the goodwill of Purification Solutions segment. There were no accumulated impairment losses associated with the goodwill of the Reinforcement Materials or Performance Chemicals segments.

The following table provides information regarding the Company's intangible assets with finite lives:

	September 30, 2022			September 30, 2021		
	Gross Carrying Value	Accumulated Amortization	Net Intangible Assets	Gross Carrying Value	Accumulated Amortization	Net Intangible Assets
	(In millions)					
Developed technologies	\$ 34	\$ (8)	\$ 26	\$ 62	\$ (12)	\$ 50
Trademarks	2	(1)	1	11	(1)	10
Customer relationships	59	(23)	36	60	(20)	40
Total intangible assets	<u>\$ 95</u>	<u>\$ (32)</u>	<u>\$ 63</u>	<u>\$ 133</u>	<u>\$ (33)</u>	<u>\$ 100</u>

Intangible assets are amortized over their estimated useful lives, which range between ten and twenty-five years, with a weighted average amortization period of 17 years. Amortization expense for fiscal 2022, 2021 and 2020 was \$6 million, \$8 million and \$7 million, respectively, and is included in Cost of sales, Selling and administrative expenses, and Research and technical expenses in the Consolidated Statements of Operations. Total amortization expense is estimated to be approximately \$6 million each year for the next five fiscal years.

Note H. Accounts Payable, Accrued Liabilities and Other Liabilities

Accounts payable and accrued liabilities included in current liabilities consist of the following:

	September 30	
	2022	2021
	(In millions)	
Accounts payable	\$ 533	\$ 480
Accrued employee compensation	66	75
Other accrued liabilities	108	112
Total	<u>\$ 707</u>	<u>\$ 667</u>

Other long-term liabilities consist of the following:

	September 30	
	2022	2021
	(In millions)	
Employee benefit plan liabilities	\$ 51	\$ 80
Operating lease liabilities	83	84
Other accrued liabilities	100	115
Total	<u>\$ 234</u>	<u>\$ 279</u>

Note I. Debt and Other Obligations

Short-term Borrowings

Commercial Paper— The Company has a commercial paper program and the maximum aggregate balance of commercial paper notes outstanding and the amounts borrowed under the revolving credit facility may not exceed the borrowing capacity of \$1 billion under the revolving credit facility. The proceeds from the issuance of the commercial paper have been used for general corporate purposes, which may include working capital, refinancing existing indebtedness, capital expenditures, share repurchases, and acquisitions. The revolving credit facility is available to repay the outstanding commercial paper, if necessary.

There was an outstanding balance of commercial paper of \$322 million as of September 30, 2022 with a weighted average interest rate of 3.35% and an outstanding balance of \$71 million as of September 30, 2021 with a weighted average interest rate of 0.15%.

Line of credit— Cabot's subsidiary in China entered into a short-term line of credit with a fixed interest rate of 3.7% to support the working capital needs at its Xingtai facility. The outstanding balance as of September 30, 2022 was \$25 million. This line of credit was established March 1, 2022 and matures February 28, 2023.

Long-term Obligations

The Company's long-term obligations, the fiscal year in which they mature and their respective interest rates are summarized below:

	September 30	
	2022	2021
	(In millions)	
Variable Rate Debt:		
Revolving Credit Facility, expires fiscal 2026	\$ —	\$ —
Revolving Credit Facility - Euro, expires fiscal 2024	114	134
Total variable rate debt	114	134
Fixed Rate Debt:		
3.7% Notes due fiscal 2022	—	350
3.4% Notes due fiscal 2026	250	250
4.0% Notes due fiscal 2029	300	300
5.0% Notes due fiscal 2032	400	—
Medium Term Notes:		
Notes due fiscal 2022, 8.34% — 8.47%	—	15
Notes due fiscal 2028, 6.57% — 7.28%	8	8
Total Medium Term Notes	8	23
Chinese Renminbi Debt, due fiscal 2023, 4.35%	4	4
Total fixed rate debt	962	927
Finance lease obligations (Note R)	29	33
Unamortized debt issuance costs and debt discount	(9)	(4)
Total debt	1,096	1,090
Less current portion of long-term debt	(7)	(373)
Total long-term debt	<u>\$ 1,089</u>	<u>\$ 717</u>

Revolving Credit Facility, expiring fiscal 2026— In August 2021, the Company entered into a revolving credit agreement (the "U.S. Credit Agreement") with a loan commitment not to exceed \$1 billion. The U.S. Credit Agreement supports the Company's issuance of commercial paper, and borrowings under it may be used for working capital, letters of credit and other general corporate purposes. Outstanding commercial paper balances reduce the amount available for borrowing under the U.S. Credit Agreement, which was \$678 million as of September 30, 2022. The U.S. Credit Agreement, which matures on August 6, 2026, subject to a one one-year option to extend the maturity, exercisable on or prior to August 6, 2023, contains affirmative and negative covenants, the financial debt covenant described below, and annual sustainability performance targets related to the Company's reduction in its nitrogen oxide and sulfur dioxide emissions intensity, the achievement of which may adjust pricing under the U.S. Credit Agreement. The borrowing rate is currently based on LIBOR, plus a Cabot-specific spread based on the Company's credit rating and achievement on the annual sustainability performance targets. As a result of meeting the annual sustainability performance targets, the commitment fee and borrowing rate will be reduced by 0.01% and 0.05%, respectively, effective from August 2022 through August 2023.

Revolving Credit Facility-Euro, expiring fiscal 2024—In May 2019, several subsidiaries entered into a revolving credit agreement (the "Euro Credit Agreement") with a loan commitment not to exceed 300 million Euros. The amount available for borrowing under this revolving credit agreement was \$178 million as of September 30, 2022, and the weighted average interest rate on the outstanding balance during the year was 1.82%. The borrowing rate is currently based on LIBOR, plus a Cabot-specific spread based on the Company's credit rating. The revolving credit agreement, which matures on the earlier of (i) May 22, 2024 and (ii) the date of maturity, termination or expiration of the corporate revolving credit facility, may be used for repatriation of earnings of Cabot's foreign subsidiaries to the U.S., the repayment of indebtedness of the Company's foreign subsidiaries owing to the Company or any of its subsidiaries, and for working capital and general corporate purposes. The obligations of the subsidiaries under the revolving credit agreement are guaranteed by the Company. The Company paid debt issuance costs of \$1 million upon entering the agreement, which are being amortized over the life of the revolver.

Effective October 19, 2021, the same subsidiaries amended and restated the Euro Credit Agreement to align with the customary LIBOR replacement language and the financial leverage test covenant adopted in the U.S. Credit Agreement. The amount of the loan commitment, maturity date, acceptable use of funds, and guarantee by the Company are unchanged from the prior agreement.

Debt Covenants— As of September 30, 2022, Cabot was in compliance with the financial debt covenants under the Credit Agreements, which, with limited exceptions, require us to comply on a quarterly basis with a leverage test requiring the ratio of consolidated net debt to consolidated EBITDA not to exceed 3.50 to 1.00. Consolidated net debt is defined as consolidated debt offset by the lesser of (i) unrestricted cash and cash equivalents and (ii) \$150 million.

Chinese Renminbi Debt—The Company’s consolidated Chinese subsidiaries had \$4 million of unsecured long-term debt outstanding with a noncontrolling shareholder of a consolidated subsidiary as of both September 30, 2022 and 2021.

3.7% Notes due fiscal 2022—In June 2022, Cabot settled \$350 million in unsecured notes with a coupon of 3.7% that were scheduled to mature on July 15, 2022.

3.4% Notes due fiscal 2026—In September 2016, Cabot issued \$250 million in registered notes with a coupon of 3.4% that mature on September 15, 2026. These notes are unsecured and pay interest on March 15 and September 15. The net proceeds of this offering were \$248 million after deducting discounts and issuance costs. The discount of less than \$1 million was recorded at issuance and is being amortized over the life of the notes.

4.0% Notes due fiscal 2029—In June 2019, Cabot issued \$300 million in registered, unsecured, notes with a coupon of 4.0% that mature on July 1, 2029. Interest is payable under the notes semi-annually on January 1 and July 1. The net proceeds of this offering were \$296 million after deducting discounts and issuance costs of \$1 million and \$3 million, respectively, which were paid at issuance and are being amortized over the life of the notes.

5.0% Notes due fiscal 2032—In June 2022, Cabot issued \$400 million in unsecured notes with a coupon of 5% that mature on June 30, 2032. Interest is payable semi-annually on June 30 and December 30, commencing on December 30, 2022. The net proceeds of this offering were \$394 million after deducting discounts and issuance costs, each of which were \$3 million, which were paid at issuance and are being amortized over the life of the notes.

Medium Term Notes—At September 30, 2022 and 2021, there were \$8 million and \$23 million, respectively, of unsecured medium term notes outstanding issued to numerous lenders with various fixed interest rates and maturity dates. The weighted average maturity of the total outstanding medium term notes is 5 years with a weighted average interest rate of 7.24%.

Finance Lease obligations—See Note R for a discussion of the Company’s leases.

Future Years Payment Schedule

The aggregate principal amounts of long-term debt, excluding finance lease liabilities presented separately in Note R, due in each of the five years from fiscal 2023 through 2027 and thereafter are as follows:

Years Ending September 30	Principal Payments on Long-Term Debt (In millions)
2023	\$ 4
2024	114
2025	—
2026	250
2027	—
Thereafter	708
Total	<u>\$ 1,076</u>

Standby letters of credit—At September 30, 2022, the Company had provided standby letters of credit that were outstanding and not drawn totaling \$7 million, which expire through fiscal 2024.

Note J. Financial Instruments and Fair Value Measurements

The FASB authoritative guidance on fair value measurements defines fair value, provides a framework for measuring fair value, and requires certain disclosures about fair value measurements. The required disclosures focus on the inputs used to measure fair value. The guidance establishes the following hierarchy for categorizing these inputs:

- Level 1 — Quoted market prices in active markets for identical assets or liabilities
- Level 2 — Significant other observable inputs (e.g., quoted prices for similar items in active markets, quoted prices for identical or similar items in markets that are not active, inputs other than quoted prices that are observable such as interest rate and yield curves, and market-corroborated inputs)
- Level 3 — Significant unobservable inputs

There were no transfers of financial assets or liabilities measured at fair value between Level 1 and Level 2, and there were no Level 3 investments during fiscal 2022 or 2021.

At both September 30, 2022 and 2021, the fair values of cash and cash equivalents, accounts and notes receivable, accounts payable and accrued liabilities, and short term borrowings and variable rate debt approximated their carrying values due to the short-term nature of these instruments. Each of these financial asset and liability categories is classified as Level 1 within the fair value hierarchy.

At both September 30, 2022 and 2021, Cabot had derivatives relating to foreign currency risks carried at fair value. At September 30, 2022 and 2021, the fair value of these derivatives was a net asset of \$28 million and \$3 million, respectively, and was included in Prepaid expenses and other current assets, Accounts payable and accrued liabilities, and Other assets on the Consolidated Balance Sheets. These derivatives are classified as Level 2 instruments within the fair value hierarchy as the fair value determination was based on observable inputs.

At September 30, 2022 and 2021, the fair value of Guaranteed investment contracts, included in Other assets on the Consolidated Balance Sheets, was \$8 million and \$10 million, respectively. Guaranteed investment contracts were classified as Level 2 instruments within the fair value hierarchy as the fair value determination was based on other observable inputs.

The carrying value and fair value of the long-term fixed rate debt were \$1.08 billion and \$1.06 billion, respectively, as of September 30, 2022 and \$1.06 billion and \$1.13 billion, respectively, as of September 30, 2021. The fair values of Cabot's fixed rate long-term debt are estimated based on comparable quoted market prices at the respective period ends. The carrying amounts of Cabot's floating rate long-term debt and finance lease obligations approximate their fair values. All such measurements are based on observable inputs and are classified as Level 2 within the fair value hierarchy. The valuation technique used is the discounted cash flow model.

Note K. Derivatives

Risk Management

Cabot's business operations are exposed to changes in interest rates, foreign currency exchange rates and commodity prices because Cabot finances certain operations through long and short-term borrowings, denominates transactions in a variety of foreign currencies and purchases certain commoditized raw materials. Changes in these rates and prices may have an impact on future cash flows and earnings. The Company manages these risks through normal operating and financing activities and, when deemed appropriate, through the use of derivative financial instruments.

The Company has policies governing the use of derivative instruments and does not enter into financial instruments for trading or speculative purposes.

By using derivative instruments, Cabot is subject to credit and market risk. If a counterparty fails to fulfill its performance obligations under a derivative contract, Cabot's credit risk will equal the fair value of the derivative. Generally, when the fair value of a derivative contract is positive, the counterparty owes Cabot, thus creating a payment risk for Cabot. The Company minimizes counterparty credit (or repayment) risk by entering into transactions with major financial institutions of investment grade credit rating. Cabot's exposure to market risk is not hedged in a manner that completely eliminates the effects of changing market conditions on earnings or cash flow. No significant concentration of credit risk existed at September 30, 2022 and 2021.

Interest Rate Risk Management

Cabot's objective is to maintain a certain fixed-to-variable interest rate mix on the Company's debt obligations. Cabot may enter into interest rate swaps as a hedge of the underlying debt instruments to effectively change the characteristics of the interest rate without changing the debt instrument. As of both September 30, 2022 and 2021, there were no derivatives held to manage interest rate risk.

Foreign Currency Risk Management

Cabot's international operations are subject to certain risks, including currency exchange rate fluctuations and government actions. Cabot endeavors to match the currency in which debt is issued to the currency of the Company's major, stable cash receipts. In some situations, Cabot has issued debt denominated in U.S. dollars and then entered into cross-currency swaps that exchange the dollar principal and interest payments into Euro denominated principal and interest payments.

Additionally, the Company has foreign currency exposure arising from its net investments in foreign operations. Cabot may enter into cross-currency swaps to mitigate the impact of currency rate changes on the Company's net investments.

The Company also has foreign currency exposure arising from the denomination of monetary assets and liabilities in foreign currencies other than the functional currency of a given subsidiary as well as the risk that currency fluctuations could affect the dollar value of future cash flows generated in foreign currencies. Accordingly, Cabot uses short-term forward contracts to minimize the exposure to foreign currency risk. In certain situations where the Company has forecasted purchases under a long-term commitment or forecasted sales denominated in a foreign currency, Cabot may enter into appropriate financial instruments in accordance with the Company's risk management policy to hedge future cash flow exposures.

The following table provides details of the derivatives held as of September 30, 2022 and 2021 to manage foreign currency risk.

Description	Borrowing	Notional Amount		Hedge Designation
		September 30, 2022	September 30, 2021	
Cross Currency Swaps	3.4% Notes	USD 250 million swapped to EUR 223 million	USD 250 million swapped to EUR 223 million	Net investment
Forward Foreign Currency Contracts ⁽¹⁾	N/A	USD 42 million	USD 48 million	No designation

⁽¹⁾ At both September 30, 2022 and 2021, Cabot's forward foreign exchange contracts were denominated in Indonesian rupiah and Czech koruna.

Accounting for Derivative Instruments and Hedging Activities

The Company determines the fair value of financial instruments using quoted market prices whenever available. When quoted market prices are not available for various types of financial instruments (such as forwards, options and swaps), the Company uses standard models with market-based inputs, which take into account the present value of estimated future cash flows and the ability of Cabot or the financial counterparty to perform. For interest rate and cross-currency swaps, the significant inputs to these models are interest rate curves for discounting future cash flows and are adjusted for credit risk. For forward foreign currency contracts, the significant inputs are interest rate curves for discounting future cash flows, and exchange rate curves of the foreign currency for translating future cash flows.

Fair Value Hedge

For derivative instruments that are designated and qualify as fair value hedges, the gain or loss on the derivative as well as the offsetting gain or loss on the hedged item attributable to the hedged risk are recognized in current period earnings.

Cash Flow Hedge

For derivative instruments that are designated and qualify as cash flow hedges, the effective portion of the gain or loss on the derivative is recorded in AOCI and reclassified to earnings in the same period or periods during which the hedged transaction affects earnings. Gains and losses on the derivative representing either hedge ineffectiveness or hedge components excluded from the assessment of effectiveness are recognized in current period earnings.

Net Investment Hedge

For net investment hedges, changes in the fair value of the effective portion of the derivatives' gains or losses are reported as CTA in AOCI while changes in the ineffective portion are reported in earnings. Effectiveness is assessed based on the hypothetical derivative method. The gains or losses on derivative instruments reported in AOCI are reclassified to earnings in the period in which earnings are affected by the underlying item, such as a disposal or substantial liquidations of the entities being hedged.

The Company has cross-currency swaps with a notional amount of \$250 million, which are designated as hedges of its net investments in certain Euro denominated subsidiaries. Cash settlements occur semi-annually on March 15th and September 15th for fixed rate interest payments and a cash exchange of the notional currency amount will occur at the end of the term in 2026. During fiscal 2022, 2021 and 2020 the Company received net cash interest of \$4 million, \$3 million and \$4 million, respectively. As of September 30, 2022, the fair value of these swaps was an asset of \$29 million and was included in Prepaid expenses and other current assets and Other assets, and the cumulative gain of \$32 million was included in AOCI on the Consolidated Balance Sheets. As of September 30, 2021, the fair value of these swaps was an asset of \$3 million and was included in Prepaid expenses and other current assets and Other assets, and the cumulative gain of \$6 million was included in AOCI on the Consolidated Balance Sheets.

The following table summarizes the impact of the cross-currency swaps to AOCI and the Consolidated Statements of Operations:

Description	Years Ended September 30								
	2022	2021	2020	2022	2021	2020	2022	2021	2020
	Gain/(Loss) Recognized in AOCI			(Gain)/Loss Reclassified from AOCI into Interest Expense in the Consolidated Statements of Operations			(Gain)/Loss Recognized in Interest Expense in the Consolidated Statements of Operations (Amount Excluded from Effectiveness Testing)		
	(In millions)								
Cross-currency swaps	\$ 30	\$ 7	\$ 1	\$ (6)	\$ (5)	\$ (5)	\$ 2	\$ 2	\$ 2

Other Derivative Instruments

From time to time, the Company may enter into certain derivative instruments that may not be designated as hedges for accounting purposes, which may include cross-currency swaps, foreign currency forward contracts and commodity derivatives. For cross-currency swaps and foreign currency forward contracts not designated as hedges, the Company uses standard models with market-based inputs. The significant inputs to these models are interest rate curves for discounting future cash flows, and exchange rate curves of the foreign currency for translating future cash flows. In determining the fair value of the commodity derivatives, the significant inputs to valuation models are quoted market prices of similar instruments in active markets. Although these derivatives do not qualify for hedge accounting, Cabot believes that such instruments are closely correlated with the underlying exposure, thus managing the associated risk. The gains or losses from changes in the fair value of derivative instruments that are not accounted for as hedges are recognized in current period earnings.

At September 30, 2022, the fair value of derivative instruments not designated as hedges was less than \$1 million and was presented in Accounts payable and accrued liabilities on the Consolidated Balance Sheets. At September 30, 2021, the fair value of derivative instruments not designated as hedges was less than \$1 million and was presented in Prepaid expenses and other current assets and Accounts payable and accrued liabilities on the Consolidated Balance Sheets.

Note L. Insurance Recoveries

Pepinster, Belgium

In July 2021, the Company's Specialty Compounds manufacturing and research and development facility in Pepinster, Belgium experienced significant flooding. Full production, which was temporarily halted, resumed in the second quarter of fiscal 2022. During fiscal 2021, the Company recorded expenses of \$17 million for clean-up costs, inventory, and fixed asset impairments and simultaneously recognized a fully offsetting loss recovery from expected insurance proceeds.

During fiscal 2022, the Company recorded additional expenses of \$6 million, primarily related to additional clean-up costs, and simultaneously recognized a fully offsetting loss recovery from expected insurance proceeds as the Company expects insurance proceeds in excess of the total incurred costs and policy deductibles. The flood-related expenses and loss recoveries are both included within Cost of sales in the Consolidated Statements of Operations in fiscal 2021 and 2022.

During fiscal 2022 and 2021, the Company received insurance proceeds of \$11 million and \$8 million, respectively. In fiscal 2022, this amount included \$10 million in Cash provided by operating activities and \$1 million in Cash provided by investing activities in the Consolidated Statements of Cash Flows. In fiscal 2021, this amount included \$6 million in Cash provided by operating activities and \$2 million in Cash provided by investing activities in the Consolidated Statements of Cash Flows. At September 30, 2022 and 2021, the receivable for insurance recoveries was \$4 million and \$9 million, respectively, and is included in Prepaid expenses and other current assets on the Consolidated Balance Sheet.

Franklin, Louisiana

In August 2021, the Company's specialty carbons and reinforcing carbons manufacturing facility in Franklin, Louisiana experienced an unplanned plant outage due to equipment failure. During fiscal 2022, the Company received insurance proceeds of \$8 million for business interruption. These proceeds were included within Cost of sales in the Consolidated Statements of Operations and in Cash Provided by operating activities in the Consolidated Statements of Cash Flows for the fiscal year ended September 30, 2022.

Note M. Employee Benefit Plans

The information below provides detail concerning the Company's benefit obligations under the defined benefit and postretirement benefit plans it sponsors.

Defined benefit plans provide pre-determined benefits to employees that are distributed upon retirement. Cabot is making all sponsor required contributions to these plans. The accumulated benefit obligation was \$2 million for the U.S. defined benefit plan and \$125 million for the foreign plans as of September 30, 2022 and \$3 million for the U.S. defined benefit plans and \$209 million for the foreign plans as of September 30, 2021. The remaining U.S. defined benefit plan is the frozen Supplemental Cash Balance Plan.

The following provides information about projected benefit obligations, plan assets, the funded status and weighted-average assumptions of the defined benefit pension and postretirement benefit plans:

	Years Ended September 30							
	2022		2021		2022		2021	
	Pension Benefits				Postretirement Benefits			
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
	(In millions)							
Change in Benefit Obligations:								
Benefit obligation at beginning of year	\$ 3	\$ 221	\$ 99	\$ 231	\$ 25	\$ 19	\$ 27	\$ 20
Service cost	—	4	—	6	—	—	—	—
Interest cost	—	4	—	3	—	1	—	1
Plan participants' contribution	—	1	—	1	—	—	—	—
Foreign currency exchange rate changes	—	(27)	—	6	—	(2)	—	1
(Gain) loss from changes in actuarial assumptions and plan experience	(1)	(43)	(1)	(11)	(4)	(5)	—	(2)
Benefits paid	—	(9)	(3)	(8)	(3)	—	(2)	(1)
Settlements or curtailments	—	(2)	(92)	(8)	(2)	—	—	—
Divestiture of a business	—	(16)	—	—	—	—	—	—
Other	—	—	—	1	—	—	—	—
Benefit obligation at end of year	<u>\$ 2</u>	<u>\$ 133</u>	<u>\$ 3</u>	<u>\$ 221</u>	<u>\$ 16</u>	<u>\$ 13</u>	<u>\$ 25</u>	<u>\$ 19</u>

Years Ended September 30

	2022		2021		2022		2021	
	Pension Benefits				Postretirement Benefits			
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
(In millions)								
Change in Plan Assets:								
Fair value of plan assets at beginning of year	\$ —	\$ 217	\$ 96	\$ 204	\$ —	\$ —	\$ —	\$ —
Actual return on plan assets	—	(35)	1	14	—	—	—	—
Employer contribution	—	5	—	7	5	—	2	1
Plan participants' contribution	—	1	—	1	—	—	—	—
Foreign currency exchange rate changes	—	(24)	—	7	—	—	—	—
Benefits paid	—	(9)	(3)	(8)	(3)	—	(2)	(1)
Settlements or curtailments	—	(2)	(92)	(8)	(2)	—	—	—
Expenses paid from assets	—	—	—	—	—	—	—	—
Divestiture of a business	—	(18)	—	—	—	—	—	—
Other	—	—	(2)	—	—	—	—	—
Fair value of plan assets at end of year	\$ —	\$ 135	\$ —	\$ 217	\$ —	\$ —	\$ —	\$ —
Funded status	\$ (2)	\$ 2	\$ (3)	\$ (4)	\$ (16)	\$ (13)	\$ (25)	\$ (19)
Recognized asset (liability)	\$ (2)	\$ 2	\$ (3)	\$ (4)	\$ (16)	\$ (13)	\$ (25)	\$ (19)

Pension Assumptions and Strategy

The following assumptions were used to determine the pension benefit obligations and periodic benefit costs as of and for the years ended September 30:

	2022		2021		2020	
	Pension Benefits				U.S.	Foreign
	U.S.	Foreign	U.S.	Foreign		
Actuarial assumptions as of the year-end measurement date:						
Discount rate	5.5%	4.5%	2.2%	2.1%	3.1%	1.7%
Rate of increase in compensation	3.0%	3.0%	N/A	2.9%	N/A	3.0%
Cash balance interest credit rate	2.0%	2.0%	2.0%	1.7%	0.9%	1.7%
Actuarial assumptions used to determine net periodic benefit cost during the year:						
Discount rate - benefit obligation	2.2%	2.1%	2.5%	1.7%	2.6%	1.8%
Discount rate - service cost	N/A	2.0%	N/A	1.7%	N/A	1.8%
Discount rate - interest cost	1.6%	1.7%	1.4%	1.4%	2.6%	1.6%
Expected long-term rate of return on plan assets	N/A	3.5%	N/A	4.6%	2.5%	5.2%
Rate of increase in compensation	N/A	2.9%	N/A	3.0%	N/A	3.0%
Cash balance interest credit rate	2.0%	1.7%	2.1%	1.7%	0.9%	1.9%

Postretirement Assumptions and Strategy

The following assumptions were used to determine the postretirement benefit obligations and net costs as of and for the years ended September 30:

	2022		2021		2020	
			Postretirement Benefits			
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
Actuarial assumptions as of the year-end measurement date:						
Discount rate	5.6%	5.1%	2.4%	2.8%	2.1%	2.4%
Initial health care cost trend rate ⁽¹⁾	—%	6.8%	5.5%	6.9%	6.0%	6.9%
Actuarial assumptions used to determine net cost during the year:						
Discount rate - benefit obligation	2.4%	2.8%	2.1%	2.4%	2.9%	2.4%
Discount rate - service cost	1.7%	3.5%	1.5%	3.0%	2.6%	2.9%
Discount rate - interest cost	1.6%	2.5%	1.4%	2.1%	2.5%	2.3%
Initial health care cost trend rate	5.5%	6.9%	6.0%	6.9%	6.5%	6.9%

⁽¹⁾ The Initial health care cost trend rate is set at zero for the 2022 U.S. plan assumptions in light of the expected downward adjustment the U.S. government is expected to make to the 2023 Medicare Part B premiums.

Cabot uses discount rates as of September 30, the plans' measurement date, to determine future benefit obligations under its U.S. and foreign defined benefit plans. The discount rates for the defined benefit plans in Canada, the Eurozone, Japan, Switzerland, the United Arab Emirates, the United Kingdom and the U.S. are derived from yield curves that reflect high quality corporate bond yield or swap rate information in each region and reflect the characteristics of Cabot's employee benefit plans. The discount rates for the defined benefit plans in Mexico, the Czech Republic and Indonesia are based on government bond indices that best reflect the durations of the plans, adjusted for credit spreads presented in selected AA corporate bond indices. The rates utilized are selected because they represent long-term, high quality, fixed income benchmarks that approximate the long-term nature of Cabot's pension obligations and related payouts.

Amounts recognized in the Consolidated Balance Sheets at September 30, 2022 and 2021 related to the Company's defined benefit pension and postretirement benefit plans were as follows:

	September 30							
	2022		2021		2022		2021	
	Pension Benefits		Pension Benefits		Postretirement Benefits		Postretirement Benefits	
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
	(In millions)							
Other assets	\$ —	\$ 26	\$ —	\$ 35	\$ —	\$ —	\$ —	\$ —
Accounts payable and accrued liabilities	\$ —	\$ (1)	\$ (1)	\$ (1)	\$ (2)	\$ (1)	\$ (3)	\$ (1)
Other liabilities	\$ (2)	\$ (23)	\$ (2)	\$ (38)	\$ (14)	\$ (12)	\$ (22)	\$ (18)

Amounts recognized in AOCI at September 30, 2022 and 2021 related to the Company's defined benefit pension and postretirement benefit plans were as follows:

	September 30							
	2022		2021		2022		2021	
	Pension Benefits		Pension Benefits		Postretirement Benefits		Postretirement Benefits	
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
	(In millions)							
Net actuarial (gain) loss	\$ —	\$ 23	\$ 1	\$ 20	\$ (6)	\$ (4)	\$ (4)	\$ 2
Net prior service credit	—	(1)	—	—	—	—	—	—
Balance in accumulated other comprehensive (income) loss, pretax	\$ —	\$ 22	\$ 1	\$ 20	\$ (6)	\$ (4)	\$ (4)	\$ 2

Estimated Future Benefit Payments

The Company expects that the following benefit payments will be made to plan participants in the years from 2023 to 2032:

Years Ending September 30	Pension Benefits		Postretirement Benefits	
	U.S.	Foreign	U.S.	Foreign
	(In millions)			
2023	\$ —	\$ 8	\$ 2	\$ 1
2024	\$ —	\$ 10	\$ 2	\$ 1
2025	\$ —	\$ 9	\$ 2	\$ 1
2026	\$ —	\$ 9	\$ 2	\$ 1
2027	\$ —	\$ 10	\$ 2	\$ 1
2028 - 2032	\$ 1	\$ 47	\$ 6	\$ 4

Postretirement medical benefits are unfunded and impact Cabot's cash flows as benefits become due, which is expected to be \$3 million in fiscal 2023. The Company expects to contribute \$4 million to its pension plans in fiscal 2023.

Net periodic defined benefit pension and other postretirement benefit costs include the following components:

	Years Ended September 30											
	2022		2021		2020		2022		2021		2020	
	Pension Benefits		Pension Benefits		Pension Benefits		Postretirement Benefits		Postretirement Benefits		Postretirement Benefits	
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
	(In millions)											
Service cost	\$ —	\$ 4	\$ —	\$ 6	\$ 1	\$ 5	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Interest cost	—	4	—	3	4	3	—	1	—	1	1	—
Expected return on plan assets	—	(6)	—	(10)	(3)	(9)	—	—	—	—	—	—
Amortization of net losses	—	1	—	3	—	3	—	—	—	—	(1)	1
Settlements or Curtailments cost	—	—	4	1	3	1	(1)	—	—	—	—	—
Other	—	—	—	2	—	—	—	—	—	—	—	—
Net periodic (benefit) cost	<u>\$ —</u>	<u>\$ 3</u>	<u>\$ 4</u>	<u>\$ 5</u>	<u>\$ 5</u>	<u>\$ 3</u>	<u>\$ (1)</u>	<u>\$ 1</u>	<u>\$ —</u>	<u>\$ 1</u>	<u>\$ —</u>	<u>\$ 1</u>

Other changes in plan assets and benefit obligations recognized in Other comprehensive income (loss) are as follows:

	Years Ended September 30											
	2022		2021		2020		2022		2021		2020	
	Pension Benefits		Pension Benefits		Pension Benefits		Postretirement Benefits		Postretirement Benefits		Postretirement Benefits	
	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign	U.S.	Foreign
	(In millions)											
Net (gains) losses	\$ —	\$ (2)	\$ (2)	\$ (15)	\$ (4)	\$ 8	\$ (4)	\$ (4)	\$ —	\$ (2)	\$ 1	\$ (1)
Prior service (credit) cost	—	—	—	(1)	—	—	—	—	—	—	—	—
Amortization of prior unrecognized loss	—	(1)	—	(3)	—	(3)	—	—	—	—	1	(1)
Loss on divestiture	—	(2)	—	—	—	—	—	—	—	—	—	—
(Loss) gain on settlements	—	—	(4)	(1)	(3)	(1)	1	—	—	—	—	—
Net changes recognized in Total other comprehensive (income) loss ⁽¹⁾	<u>\$ —</u>	<u>\$ (5)</u>	<u>\$ (6)</u>	<u>\$ (20)</u>	<u>\$ (7)</u>	<u>\$ 4</u>	<u>\$ (3)</u>	<u>\$ (4)</u>	<u>\$ —</u>	<u>\$ (2)</u>	<u>\$ 2</u>	<u>\$ (2)</u>

⁽¹⁾ The tax impact on pension and other postretirement benefit liability adjustments arising during the period was a tax benefit of \$3 million, a tax benefit of \$8 million, and a tax provision of less than \$1 million for fiscal 2022, 2021, and 2020, respectively.

Plan Assets

The Company's foreign defined benefit pension plans weighted-average asset allocations at September 30, 2022 and 2021 by asset category, are as follows:

	September 30	
	2022	2021
Equity securities	20%	21%
Debt securities	68%	73%
Real estate	7%	2%
Cash and other securities	5%	4%
Total	100%	100%

To develop the expected long-term rate of return on plan assets assumption, the Company used a capital asset pricing model. The model considers the current level of expected returns on risk-free investments comprised of government bonds, the historical level of the risk premium associated with the other asset classes in which the portfolio is invested, and the expectations for future returns for each asset class. The expected return for each asset class was then weighted based on the target asset allocation to develop the expected long-term rate of return for each plan.

Cabot's investment strategy for each of its foreign defined benefit plans is generally based on a set of investment objectives and policies that cover time horizons and risk tolerance levels consistent with plan liabilities. Periodic studies are performed to determine the asset mix that will meet pension obligations at a reasonable cost to the Company. The assets of the defined benefit plans are comprised principally of investments in equity and high-quality fixed income securities, which are broadly diversified across the capitalization and style spectrum and are managed using both active and passive strategies. The weighted average target asset allocation for the foreign plans is 18% in equity, 67% in fixed income, 11% in real estate, and 4% in cash and other securities.

For pension plan assets classified as Level 1 measurements (measured using quoted prices in active markets), total fair value is either the price of the most recent trade at the time of the market close or the official close price, as defined by the exchange on which the asset is most actively traded on the last trading day of the period, multiplied by the number of units held without consideration of transaction costs.

For pension plan assets classified as Level 2 measurements, where the security is frequently traded in less active markets, fair value is based on the closing price at the end of the period; where the security is less frequently traded, fair value is based on the price a dealer would pay for the security or similar securities, adjusted for any terms specific to that asset or liability. Market inputs are obtained from well-established and recognized vendors of market data and subjected to tolerance/quality checks.

The fair value of the Company's pension plan assets at September 30, 2022 and 2021 by asset category is as follows:

	September 30					
	2022			2021		
	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Observable Inputs (Level 2)	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Observable Inputs (Level 2)	Total
	(In millions)					
Cash	\$ 1	\$ —	\$ 1	\$ —	\$ —	\$ —
Direct investments:						
U.S. government bonds	—	—	—	—	—	—
U.S. corporate bonds	—	—	—	—	—	—
Non-U.S. equities	4	—	4	4	—	4
Non-U.S. government bonds	1	—	1	2	—	2
Non-U.S. corporate bonds	2	—	2	3	—	3
Mortgage backed securities	—	1	1	—	1	1
Other fixed income	1	—	1	1	—	1
Total direct investments	8	1	9	10	1	11
Investment funds:						
Equity funds ⁽¹⁾	—	23	23	—	42	42
Fixed income funds ⁽²⁾	—	86	86	—	155	155
Real estate funds ⁽³⁾	—	9	9	—	3	3
Cash equivalent funds	1	—	1	1	—	1
Other investment funds	—	1	1	—	—	—
Total investment funds	1	119	120	1	200	201
Alternative investments:						
Insurance contracts ⁽⁴⁾	—	5	5	—	5	5
Other alternative investments	—	—	—	—	—	—
Total alternative investments	—	5	5	—	5	5
Total pension plan assets	\$ 10	\$ 125	\$ 135	\$ 11	\$ 206	\$ 217

- (1) The equity funds asset class includes funds that invest in U.S. equities as well as equity securities issued by companies incorporated, listed or domiciled in countries in developed and/or emerging markets. These companies may be in the small-, mid- or large-cap categories.
- (2) The fixed income funds asset class includes investments in high quality funds. High quality fixed income funds primarily invest in low risk U.S. and non-U.S. government securities, investment-grade corporate bonds, mortgages and asset-backed securities. A significant portion of the fixed income funds include investment in long-term bond funds.
- (3) The real estate funds asset class includes funds that primarily invest in entities which are principally engaged in the ownership, acquisition, development, financing, sale and/or management of income-producing real estate properties, both commercial and residential. These funds typically seek long-term growth of capital and current income that is above average relative to public equity funds.
- (4) Insurance contracts held by the Company's non-U.S. plans are issued by well-known, highly rated insurance companies.

Defined Contribution Plans

In addition to benefits provided under the defined benefit and postretirement benefit plans, the Company provides benefits under defined contribution plans. Cabot recognized expenses related to these plans of \$15 million in fiscal 2022, \$18 million in fiscal 2021, and \$19 million in fiscal 2020.

Note N. Stock-Based Compensation

The Cabot Corporation Amended and Restated 2017 Long-Term Incentive Plan (the "Amended Plan") was established by the Company to provide stock-based compensation to eligible employees. The Amended Plan was approved by Cabot's stockholders on March 11, 2021 and authorizes the issuance of up to 8,625,000 shares of common stock. It is the only equity incentive plan under which the Company may grant equity awards to employees.

The terms of awards made under Cabot's equity compensation plans are generally determined by the Compensation Committee of Cabot's Board of Directors. The awards made in fiscal 2022, 2021 and 2020 consist of grants of stock options, time-based restricted stock units, and performance-based restricted stock units. The options were issued with an exercise price equal to 100% of the market price of Cabot's common stock on the date of grant, generally vest over a three year period (30% on each of the first and second anniversaries of the date of grant and 40% on the third anniversary of the date of grant) and have a ten-year term. The restricted stock units generally vest three years from the date of the grant. The number of shares issuable, if any, when a performance-based restricted stock unit award vests will depend on the degree of achievement of the corporate performance metrics for each year within the three-year performance period of the award. Accordingly, future compensation costs associated with outstanding awards of performance-based restricted stock units may increase or decrease based on the probability of the Company achieving the performance metrics.

Stock-based employee compensation expense was \$22 million, \$20 million and \$9 million, after tax, for fiscal 2022, 2021 and 2020, respectively.

The following table presents stock-based compensation expenses included in the Company's Consolidated Statements of Operations:

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
Cost of sales	\$ 3	\$ 2	\$ 1
Selling and administrative expenses	18	17	7
Research and technical expenses	2	2	1
Stock-based compensation expense	23	21	9
Income tax benefit	(1)	(1)	—
Net stock-based compensation expense	<u>\$ 22</u>	<u>\$ 20</u>	<u>\$ 9</u>

As of September 30, 2022, Cabot had \$24 million and \$3 million of total unrecognized compensation cost related to restricted stock units and options, respectively, granted under the Company's equity incentive plans. These costs are expected to be recognized over a weighted-average period of approximately one year for restricted stock units and options.

Equity Incentive Plan Activity

The following table summarizes the total stock option and restricted stock unit activity in the equity incentive plans for fiscal 2022:

	Stock Options		Restricted Stock Units	
	Total Options ⁽⁴⁾	Weighted Average Exercise Price	Restricted Stock Units ⁽¹⁾	Weighted Average Grant Date Fair Value
	(Shares in thousands)			
Outstanding at September 30, 2021	1,476	\$ 48.36	859	\$ 45.82
Granted	242	\$ 58.27	280	\$ 58.72
Performance-based adjustment ⁽²⁾	—	\$ —	122	\$ 48.66
Exercised / Vested	(136)	\$ 47.52	(213)	\$ 49.35
Cancelled / Forfeited	(8)	\$ 62.24	(36)	\$ 46.85
Outstanding at September 30, 2022 ⁽³⁾	<u>1,574</u>	<u>\$ 49.89</u>	<u>1,012</u>	<u>\$ 48.95</u>
Exercisable at September 30, 2022	923	\$ 50.31		

⁽¹⁾ The number granted represents the number of shares issuable upon vesting of time-based restricted stock units and performance-based restricted stock units, assuming the Company performs at the target performance level in each year of the three-year performance period.

⁽²⁾ Represents the net incremental number of shares issuable upon vesting of performance-based restricted stock units based on the Company's actual financial performance metrics for fiscal 2022.

⁽³⁾ Stock options outstanding include options vested and expected to vest in the future and have a weighted average remaining contractual life of 6.81 years.

⁽⁴⁾ Unvested stock options were approximately 651,000 and 745,000 at September 30, 2022 and 2021 and their weighted average grant date fair values were \$49.30 and \$45.24, respectively.

Stock Options

As of September 30, 2022, the aggregate intrinsic value for all options outstanding and options exercisable was \$22 million. The intrinsic value of options exercised during fiscal 2022, 2021 and 2020 was \$4 million, \$2 million, and nominal, respectively, and the Company received cash of \$6 million, \$5 million and \$1 million, respectively, from these exercises. The Company recognized immaterial tax benefits in fiscal 2022, 2021, and 2020 from the exercise of stock options which were included in (Provision) benefit for income taxes within the Consolidated Statements of Operations.

The Company uses the Black-Scholes option-pricing model to estimate the fair value of the options at the grant date. The weighted average grant date fair values of options granted during fiscal 2022, 2021 and 2020 was \$15.95, \$9.69, and \$10.68 per option, respectively. The fair values on the grant date were calculated using the following weighted-average assumptions:

	Years Ended September 30		
	2022	2021	2020
Expected stock price volatility	35%	36%	28%
Risk free interest rate	1.4%	0.6%	1.9%
Expected life of options (years)	6	6	6
Expected annual dividends per year	\$ 1.40	\$ 1.40	\$ 1.40

The expected stock price volatility assumption was determined using the historical volatility of the Company's common stock over the expected life of the option. The expected term reflects the anticipated time period between the measurement date and the exercise date or post-vesting cancellation date.

Restricted Stock Units

The value of restricted stock unit awards is the closing stock price at the date of the grant. The weighted average grant date fair values of restricted stock unit awards granted during fiscal 2022, 2021 and 2020 was \$58.72, \$41.92, and \$49.36, respectively. The intrinsic value of restricted stock units (meaning the fair value of the units on the date of vesting) that vested during fiscal 2022, 2021 and 2020 was \$13 million, \$8 million and \$13 million, respectively.

Supplemental 401(k) Plan

Cabot's Deferred Compensation and Supplemental Retirement Plan ("SERP 401(k)") provides benefits to highly compensated employees when the retirement plan limits established under the Internal Revenue Code prevent them from receiving all of the Company matching and retirement contributions that would otherwise be provided under the qualified 401(k) plan. The SERP 401(k) is non-qualified and unfunded. Contributions under the SERP 401(k) are treated as if invested in Cabot common stock. The majority of the distributions made under the SERP 401(k) are required to be paid with shares of Cabot common stock. The remaining distributions, which relate to certain grandfathered accounts, will be paid in cash based on the market price of Cabot common stock at the time of distribution. The aggregate value of the accounts that will be paid out in stock, which is equivalent to approximately 103,000 and 77,000 shares of Cabot common stock as of September 30, 2022 and 2021, respectively, is reflected at historic cost in stockholders' equity, and the aggregate value of the accounts that will be paid in cash, which was immaterial as of September 30, 2022 and 2021, was included in Other liabilities and marked-to-market quarterly.

Note O. Accumulated Other Comprehensive Income (Loss)

Changes in each component of AOCI, net of tax, are as follows for fiscal 2021 and 2022:

	Currency Translation Adjustment	Pension and Other Postretirement Benefit Liability Adjustment (In millions)	Total
Balance at September 30, 2020 attributable to Cabot Corporation	\$ (307)	\$ (44)	\$ (351)
Other comprehensive income (loss) before reclassifications	52	20	72
Amounts reclassified from AOCI	(3)	—	(3)
Less: Other comprehensive income (loss) attributable to noncontrolling interests	7	—	7
Balance at September 30, 2021 attributable to Cabot Corporation	(265)	(24)	(289)
Other comprehensive income (loss) before reclassifications	(208)	12	(196)
Amounts reclassified from AOCI	29	2	31
Less: Other comprehensive income (loss) attributable to noncontrolling interests	(15)	—	(15)
Balance at September 30, 2022 attributable to Cabot Corporation	<u>\$ (429)</u>	<u>\$ (10)</u>	<u>\$ (439)</u>

The amounts reclassified out of AOCI and into the Consolidated Statements of Operations for fiscal 2022, 2021 and 2020 are as follows:

	Affected Line Item in the Consolidated Statements of Operations	Years Ended September 30		
		2022	2021	2020
(In Millions)				
Derivatives: net investment hedges				
(Gains) losses reclassified to interest expense	Interest expense	\$ (6)	\$ (5)	\$ (5)
(Gains) losses excluded from effectiveness testing and amortized to interest expense	Interest expense	2	2	2
Release of current translation adjustment	Loss on sale of business and asset impairment charge	33	—	—
Pension and other postretirement benefit liability adjustment				
Release of actuarial losses and prior service cost (credits)	Loss on sale of business and asset impairment charge	2	—	—
Amortization of actuarial losses and prior service cost (credit)	Net Periodic Benefit Cost - see Note M for details	1	3	3
Settlement and curtailment loss (gain)	Net Periodic Benefit Cost - see Note M for details	(1)	5	4
Total before tax		<u>\$ 31</u>	<u>\$ 5</u>	<u>\$ 4</u>

Note P. Earnings Per Share

The following tables summarize the components of the basic and diluted earnings per common share ("EPS") computations:

	Years Ended September 30		
	2022	2021	2020
	(In millions, except per share amounts)		
Basic EPS:			
Net income (loss) attributable to Cabot Corporation	\$ 209	\$ 250	\$ (238)
Less: Dividends and dividend equivalents to participating securities	1	1	—
Less: Undistributed earnings allocated to participating securities ⁽¹⁾	2	2	—
Earnings (loss) allocated to common shareholders (numerator)	<u>\$ 206</u>	<u>\$ 247</u>	<u>\$ (238)</u>
Weighted average common shares and participating securities outstanding	57.4	57.5	57.3
Less: Participating securities ⁽¹⁾	0.9	0.8	0.7
Adjusted weighted average common shares (denominator)	<u>56.5</u>	<u>56.7</u>	<u>56.6</u>
Per share amounts—basic:			
Net income (loss) attributable to Cabot Corporation	\$ 3.65	\$ 4.35	\$ (4.21)
Diluted EPS:			
Earnings (loss) allocated to common shareholders	\$ 206	\$ 247	\$ (238)
Plus: Earnings allocated to participating securities	3	3	—
Less: Adjusted earnings allocated to participating securities ⁽²⁾	3	3	—
Earnings (loss) available to common shares (numerator)	<u>\$ 206</u>	<u>\$ 247</u>	<u>\$ (238)</u>
Adjusted weighted average common shares outstanding	56.5	56.7	56.6
Effect of dilutive securities:			
Common shares issuable ⁽³⁾	0.4	0.1	—
Adjusted weighted average common shares (denominator)	<u>56.9</u>	<u>56.8</u>	<u>56.6</u>
Per share amounts—diluted:			
Net income (loss) attributable to Cabot Corporation	\$ 3.62	\$ 4.34	\$ (4.21)

⁽¹⁾ Participating securities consist of shares underlying all outstanding and achieved performance-based restricted stock units and all unvested time-based restricted stock units. The holders of these units are entitled to receive dividend equivalents payable in cash to the extent dividends are paid on the Company's outstanding common stock and equal in value to the dividends that would have been paid in respect of the shares underlying such units.

Undistributed earnings are the earnings which remain after dividends declared during the period are assumed to be distributed to the common and participating shareholders. Undistributed earnings are allocated to common and participating shareholders on the same basis as dividend distributions. The calculation of undistributed earnings is as follows:

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
Calculation of undistributed earnings:			
Net income (loss) attributable to Cabot Corporation	\$ 209	\$ 250	\$ (238)
Less: Dividends declared on common stock	84	80	80
Less: Dividends and dividend equivalents to participating securities	1	1	—
Undistributed earnings (loss)	<u>\$ 124</u>	<u>\$ 169</u>	<u>\$ (318)</u>
Allocation of undistributed earnings:			
Undistributed earnings (loss) allocated to common shareholders	\$ 122	\$ 167	\$ (318)
Undistributed earnings allocated to participating securities	2	2	—
Undistributed earnings (loss)	<u>\$ 124</u>	<u>\$ 169</u>	<u>\$ (318)</u>

- (2) Undistributed earnings (loss) are adjusted for the assumed distribution of dividends to the dilutive securities, which are described in (3) below, and then reallocated to participating securities.
- (3) Represents incremental shares of common stock from the (i) assumed exercise of stock options issued under Cabot's equity incentive plans; and (ii) assumed issuance of shares to employees pursuant to the Company's Deferred Compensation and Supplemental Retirement Plan. For fiscal 2022, 2021, and 2020, respectively, 214,180, 525,131, and 1,821,018 incremental shares of common stock were excluded from the calculation of diluted earnings per share because the inclusion of these shares would have been antidilutive.

Note Q. Income Taxes

Income from continuing operations before income taxes and equity in net earnings of affiliated companies was as follows:

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
Domestic	\$ (20)	\$ (73)	\$ (274)
Foreign	355	479	241
Income from continuing operations before income taxes and equity in earnings of affiliated companies	<u>\$ 335</u>	<u>\$ 406</u>	<u>\$ (33)</u>

Tax provision (benefit) for income taxes consisted of the following:

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
U.S. federal and state:			
Current	\$ 7	\$ 11	\$ (1)
Deferred	2	(1)	139
Total	<u>9</u>	<u>10</u>	<u>138</u>
Foreign:			
Current	135	103	62
Deferred	(42)	10	(9)
Total	<u>93</u>	<u>113</u>	<u>53</u>
Provision (benefit) for income taxes	<u>\$ 102</u>	<u>\$ 123</u>	<u>\$ 191</u>

The provision (benefit) for income taxes differed from the provision for income taxes as calculated using the U.S. statutory rate as follows:

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
Computed tax expense at the federal statutory rate	\$ 70	\$ 85	\$ (7)
Foreign impact of taxation at different rates, repatriation, valuation allowance, and other	38	8	4
Global Intangible Low Taxed Income (GILTI)	23	18	(4)
Purification Solutions business divestiture	(179)	—	—
Impact of the Coronavirus Aid, Relief, and Economic Security ("CARES") Act of 2020	—	10	(10)
Impact of increase (decrease) in valuation allowance on U.S. deferred taxes	160	(1)	228
U.S. and state benefits from research and experimentation activities	(2)	(2)	(2)
Provision (settlement) of unrecognized tax benefits	1	1	(7)
Permanent differences, net	10	7	—
State taxes, net of federal effect	(19)	(3)	(11)
Provision (benefit) for income taxes	<u>\$ 102</u>	<u>\$ 123</u>	<u>\$ 191</u>

Significant components of deferred income taxes were as follows:

	September 30	
	2022	2021
	(In millions)	
Deferred tax assets:		
Deferred expenses	\$ 10	\$ 14
Intangible assets	39	38
Inventory	15	13
Operating lease liability	21	21
Other	32	18
U.S. federal interest expense carryforward	33	24
Pension and other benefits	29	32
Net operating loss carryforwards	224	257
Capital loss carryforwards	137	—
Foreign tax credit carryforwards	55	48
R&D credit carryforwards	47	46
Other business credit carryforwards	20	24
Subtotal	662	535
Valuation allowance	(580)	(470)
Total deferred tax assets	<u>\$ 82</u>	<u>\$ 65</u>
Deferred tax liabilities:		
Property, plant and equipment	\$ (59)	\$ (47)
Right of use asset	(21)	(20)
Unremitted earnings of non-U.S. subsidiaries	(22)	(18)
Total deferred tax liabilities	<u>\$ (102)</u>	<u>\$ (85)</u>

The Company assesses the available positive and negative evidence to estimate whether sufficient future taxable income will be generated to permit utilization of the existing deferred tax assets. When performing this assessment, the Company looks to the potential future reversal of existing taxable temporary differences, taxable income in carryback years and the feasibility of tax

planning strategies and estimated future taxable income. Failure to achieve operating income targets resulting in a cumulative loss may change the Company's assessment regarding the realization of Cabot's deferred tax assets, resulting in valuation allowance being recorded against some or all of the Company's deferred tax assets. The need for a valuation allowance can also be affected by changes to tax laws, changes to statutory tax rates and changes to future taxable income estimates. A valuation allowance represents management's best estimate of the non-realizable portion of the deferred tax assets. Any adjustments in a valuation allowance would result in an adjustment to income tax expense.

In determining the recoverability of its U.S. deferred tax assets, the Company considered its cumulative loss incurred over the three-year period ended September 30, 2022. Such objective negative evidence limits the Company's ability to consider other subjective evidence, such as its projections for future growth. Given the weight of objectively verifiable historical losses from the Company's U.S. operations, the Company recorded a valuation allowance on all of its U.S. deferred tax assets resulting in a charge of \$228 million during the fourth quarter of fiscal 2020. The Company has maintained a valuation allowance on all of its U.S. deferred tax assets at September 30, 2022. The Company expects to continue to record a valuation allowance against these assets until sufficient positive evidence exists to support its reversal.

The valuation allowance increased by \$110 million in fiscal 2022 compared to fiscal 2021, primarily due to the tax loss related to the divestiture of the Purification Solutions business. The valuation allowance decreased by \$11 million in fiscal 2021 compared to fiscal 2020 primarily due to the expiration of NOLs.

After the valuation allowance, approximately \$20 million of foreign NOLs and less than \$1 million of other tax credit carryforwards remained at September 30, 2022. The benefits of these carryforwards are dependent upon taxable income during the carryforward period in the jurisdictions in which they arose.

The following table provides detail surrounding the expiration dates of NOLs, capital loss and other tax credit carryforwards before valuation allowances:

Years Ending September 30	NOLs/Capital	
	Losses	Credits
	(In millions)	
2023 - 2029	\$ 1,142	\$ 26
2030 and thereafter	227	94
Indefinite carryforwards	723	2
Total	<u>\$ 2,092</u>	<u>\$ 122</u>

As of September 30, 2022, provisions have not been made for non-U.S. withholding taxes or other applicable taxes on \$1,405 million of undistributed earnings of non-U.S. subsidiaries, as these earnings are considered indefinitely reinvested. It is not practicable to calculate the unrecognized deferred tax liability on undistributed earnings. Cabot continually reviews the financial position and forecasted cash flows of its U.S. consolidated group and foreign subsidiaries in order to reaffirm the Company's intent and ability to continue to indefinitely reinvest earnings of its foreign subsidiaries or whether such earnings will need to be repatriated in the foreseeable future. Such review encompasses operational needs and future capital investments. From time to time, however, the Company's intentions relative to specific indefinitely reinvested amounts change because of certain unique circumstances. These earnings could become subject to non-U.S. withholding taxes and other applicable taxes if they were remitted to the U.S.

Cabot has filed its tax returns in accordance with the tax laws in each jurisdiction and recognizes tax benefits for uncertain tax positions when the position would more likely than not be sustained based on its technical merits and recognizes measurement adjustments when needed. As of September 30, 2022, the total amount of unrecognized tax benefits was \$159 million, of which \$6 million was recorded in Other liabilities in the Consolidated Balance Sheet, \$16 million was offset against deferred tax assets and \$137 million related to the character of a portion of the tax loss from the Purification Solutions business divestiture. In addition, accruals of \$4 million have been recorded for penalties and interest, as of September 30, 2022. Total penalties and interest recorded in the tax provision in the Consolidated Statements of Operations was \$2 million in fiscal 2022 and \$1 million in both fiscal 2021 and 2020. If the unrecognized tax benefits were recognized as of September 30, 2022, there would be \$22 million favorable impact on the Company's tax provision before consideration of the impact of the potential need for valuation allowances.

A reconciliation of the beginning and ending amount of unrecognized tax benefits for fiscal 2022, 2021 and 2020 is as follows:

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
Balance at beginning of the year	\$ 21	\$ 23	\$ 27
Additions based on tax positions related to the current year	138	1	2
Additions for tax positions of prior years	2	—	2
Reductions of tax positions of prior years	(1)	(2)	(1)
Reductions related to settlements	—	—	(5)
Reductions from lapse of statute of limitations	(1)	(1)	(2)
Balance at end of the year	<u>\$ 159</u>	<u>\$ 21</u>	<u>\$ 23</u>

Cabot and certain subsidiaries are under audit in a number of jurisdictions. In addition, certain statutes of limitations are scheduled to expire in the near future. It is reasonably possible that a further change in the unrecognized tax benefits may occur within the next twelve months related to the settlement of one or more of these audits or the lapse of applicable statutes of limitations; however, an estimated range of the impact on the unrecognized tax benefits cannot be quantified at this time.

We are subject to taxation in the United States and various states and foreign jurisdictions. The 2019 through 2021 tax years generally remain subject to examination by the IRS and various tax years from 2009 through 2021 remain subject to examination by the respective state tax authorities. In foreign jurisdictions, various tax years from 2005 through 2021 remain subject to examination by their respective tax authorities.

Note R. Leases

The Company determines if an arrangement is a lease at inception. The Company considers a contract to be or to contain a lease if the contract conveys the right to control the use of identified property, plant, or equipment (an identified asset) for a period of time in exchange for consideration.

A lease liability is recorded at commencement for the net present value of future lease payments over the lease term. The discount rate used is generally the Company's estimated incremental borrowing rate based on credit-adjusted and term-specific discount rates, using a third-party yield curve. A right of use ("ROU") asset is recorded and recognized at commencement at the lease liability amount, including initial direct costs incurred, and is reduced for lease incentives received. The Company's lease terms may include options to extend or terminate the lease when it is reasonably certain that the Company will exercise that option.

In the normal course of its business, the Company enters into various leases as the lessee, primarily related to certain transportation vehicles, warehouse facilities, office space, and machinery and equipment. These leases have remaining lease terms between one and seventeen years, some of which may include options to extend the leases for up to fifteen years or options to terminate the leases. The Company's land leases have remaining lease terms up to seventy-nine years.

Some lease arrangements require variable payments that are dependent on usage, output, or index-based adjustments. The Company does not have material variable lease payments.

The Company has elected not to recognize short-term leases on the balance sheet for all underlying asset classes. Short-term leases are leases that, at the commencement date, have a lease term of twelve months or less and do not include a purchase option that the Company is reasonably certain to exercise. Short-term leases are expensed on a straight-line basis over the lease term.

The components of the Company's lease costs were as follows:

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
Operating lease cost	\$ 23	\$ 25	\$ 32
Finance lease cost	6	7	6
Total lease cost	<u>\$ 29</u>	<u>\$ 32</u>	<u>\$ 38</u>

Included within operating lease costs are short-term lease costs, which were \$5 million in both fiscal 2022 and 2021 and \$6 million in fiscal 2020, and variable lease costs, which were \$1 million in each of fiscal 2022, 2021, and 2020.

Supplemental cash flow information related to the Company's leases was as follows:

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
Cash paid for amounts included in the measurement of lease liabilities:			
Operating cash flows from operating leases	\$ 17	\$ 20	\$ 25
Operating cash flows from finance leases	2	2	2
Financing cash flows from finance leases	4	3	3
Right-of-use assets obtained in exchange for new operating lease liabilities			
	\$ 14	\$ 6	\$ 14
Right-of-use assets obtained in exchange for new finance lease liabilities			
	\$ 1	\$ 4	\$ 24

Supplemental balance sheet information related to the Company's leases was as follows:

Description	Balance Sheet Classification	September 30, 2022	September 30, 2021
(In millions)			
Lease ROU assets:			
Operating	Other assets	\$ 96	\$ 90
Finance	Net property, plant and equipment	41	44
Total lease ROU assets		<u>\$ 137</u>	<u>\$ 134</u>
Lease liabilities:			
Current:			
Operating	Accounts payable and accrued liabilities	\$ 14	\$ 14
Finance	Current portion of long-term debt	3	4
Long-term:			
Operating	Other liabilities	83	84
Finance	Long-term debt	26	29
Total lease liabilities		<u>\$ 126</u>	<u>\$ 131</u>

The following table presents the weighted-average remaining lease term and discount rates for the Company's leases:

Description	September 30, 2022	September 30, 2021
Weighted-average remaining lease term (years):		
Operating leases	15	17
Finance leases	10	11
Weighted-average discount rate:		
Operating leases	2.97%	2.41%
Finance leases	5.40%	5.76%

Future minimum lease payments under non-cancelable operating and finance leases as of September 30, 2022 were as follows:

Years Ended September 30	Operating leases	Finance leases
	(In millions)	
2023	\$ 16	\$ 5
2024	14	4
2025	13	4
2026	11	4
2027	10	3
2028 and thereafter	51	16
Total lease payments	115	36
Less: imputed interest	18	7
Total	<u>\$ 97</u>	<u>\$ 29</u>

Note S. Commitments and Contingencies

Other Long-Term Commitments

Cabot has entered into long-term purchase agreements primarily for the purchase of raw materials. Under certain of these agreements, the quantity of material being purchased is fixed, but the price paid changes as market prices change. Raw materials purchased under these agreements were \$512 million, \$405 million and \$258 million during fiscal 2022, 2021 and 2020, respectively. Included in those raw materials purchased are purchases from noncontrolling shareholders of consolidated subsidiaries of \$235 million, \$135 million and \$81 million during fiscal 2022, 2021 and 2020, respectively. Accounts payable and accrued liabilities owed to noncontrolling shareholders as of September 30, 2022 and 2021, were \$31 million and \$14 million, respectively.

For these purchase commitments, the amounts included in the table below are based on market prices as of September 30, 2022 which may differ from actual market prices at the time of purchase.

	Payments Due by Fiscal Year						
	2023	2024	2025	2026	2027	Thereafter	Total
				(In millions)			
Reinforcement Materials	\$ 251	\$ 202	\$ 201	\$ 201	\$ 186	\$ 1,727	\$ 2,768
Performance Chemicals	43	42	36	35	35	233	\$ 424
Total	\$ 294	\$ 244	\$ 237	\$ 236	\$ 221	\$ 1,960	\$ 3,192

The Company has also entered into long-term purchase agreements primarily for services related to information technology, which are not included in the table above, that total \$26 million as of September 30, 2022, the majority of which is expected to be paid within the next 5 years.

Guarantee Agreements

Cabot has provided certain indemnities pursuant to which it may be required to make payments to an indemnified party in connection with certain transactions and agreements. In connection with certain acquisitions and divestitures, Cabot has provided routine indemnities with respect to such matters as environmental, tax, insurance, product and employee liabilities. In connection with various other agreements, including service and supply agreements with customers, Cabot has provided indemnities for certain contingencies and routine warranties. Cabot is unable to estimate the maximum potential liability for these types of indemnities as a maximum obligation is not explicitly stated in most cases and the amounts, if any, are dependent upon the outcome of future contingent events, the nature and likelihood of which cannot be reasonably estimated. The duration of the indemnities vary, and in many cases are indefinite. Cabot has not recorded any liability for these indemnities in the consolidated financial statements, except as otherwise disclosed.

Self-Insurance and Retention for Certain Contingencies

The Company is partially self-insured for certain third-party liabilities globally, as well as workers' compensation and employee medical benefits in the United States. The third-party and workers' compensation liabilities are managed through a wholly-owned insurance captive and the related liabilities are included in the consolidated financial statements. The employee medical obligations are managed by a third-party provider and the related liabilities are included in the consolidated financial statements. To limit Cabot's potential liabilities for these risks, however, the Company purchases insurance from third-parties that provides stop-loss protection. The self-insured liability in fiscal 2022 for third-party liabilities was \$500,000 per accident for auto, \$2 million per occurrence for all other, \$1 million per accident for U.S. workers' compensation, and the retention for medical costs in the United States is at most \$275,000 per person per annum.

Contingencies

Cabot is a defendant, or potentially responsible party, in various lawsuits and environmental proceedings wherein substantial amounts are claimed or at issue.

Environmental Matters

As of September 30, 2022 and 2021, Cabot had \$4 million and \$5 million, respectively, reserved for environmental matters. These environmental matters mainly relate to former operations. The Company's reserves for environmental matters represent Cabot's best estimates of the probable costs to be incurred at those sites where costs are reasonably estimable based on the Company's analysis of the extent of clean up required, alternative clean-up methods available, abilities of other responsible parties to contribute and its interpretation of laws and regulations applicable to each site. In both fiscal 2022 and 2021, there was \$1 million in Accounts payable and accrued liabilities in the Consolidated Balance Sheets for environmental matters. In fiscal 2022 and fiscal 2021, there was \$3 million and \$4 million, respectively, in Other liabilities in the Consolidated Balance Sheets for environmental matters. Cabot reviews the adequacy of the reserves as circumstances change at individual sites and adjusts the reserves as appropriate. Almost all of Cabot's environmental issues relate to sites that are mature and have been investigated and studied and,

in many cases, are subject to agreed upon remediation plans. However, depending on the results of future testing, changes in risk assessment practices, remediation techniques and regulatory requirements, newly discovered conditions, and other factors, it is reasonably possible that the Company could incur additional costs in excess of environmental reserves currently recorded. Management estimates, based on the latest available information, that any such future environmental remediation costs that are reasonably possible to be in excess of amounts already recorded would be immaterial to the Company's consolidated financial statements.

Charges for environmental expense were \$1 million in fiscal 2022, less than \$1 million in fiscal 2021, and \$1 million in fiscal 2020 and are included in Cost of sales in the Consolidated Statements of Operations. Cash payments related to these environmental matters were \$2 million in both fiscal 2022 and fiscal 2021, and \$7 million in fiscal 2020. The Company anticipates that expenditures related to these environmental matters will be made over a number of years.

The operation and maintenance component of the reserve for environmental matters was \$3 million at September 30, 2022 and \$4 million at September 30, 2021.

In November 2013, Cabot entered into a Consent Decree with the EPA and the Louisiana Department of Environmental Quality ("LDEQ") regarding Cabot's three carbon black manufacturing facilities in the U.S. This settlement is related to EPA's national enforcement initiative focused on the U.S. carbon black manufacturing sector alleging non-compliance with certain regulatory and permitting requirements under The Clean Air Act, including the New Source Review ("NSR") construction permitting requirements. Pursuant to this settlement, Cabot has installed technology controls for the reduction of sulfur dioxide and nitrogen oxide emissions at two of its plants and is in the process of installing these controls at the third plant. Cabot is currently in discussions with the EPA and LDEQ to extend its compliance date at the third plant to mid 2024 based upon force majeure events primarily related to the COVID-19 pandemic.

Respirator Liabilities

Cabot has exposure in connection with a safety respiratory products business that a subsidiary acquired from American Optical Corporation ("AO") in an April 1990 asset purchase transaction. The subsidiary manufactured respirators under the AO brand and disposed of that business in July 1995. In connection with its acquisition of the business, the subsidiary agreed, in certain circumstances, to assume a portion of AO's liabilities, including costs of legal fees together with amounts paid in settlements and judgments, allocable to AO respiratory products used prior to the 1990 purchase by the Cabot subsidiary. In exchange for the subsidiary's assumption of certain of AO's respirator liabilities, AO agreed to provide to the subsidiary the benefits of: (i) AO's insurance coverage for the period prior to the 1990 acquisition and (ii) a former owner's indemnity of AO holding it harmless from any liability allocable to AO respiratory products used prior to May 1982.

Generally, these respirator liabilities involve claims for personal injury, including asbestosis, silicosis and coal worker's pneumoconiosis ("CWP"), allegedly resulting from the use of respirators that are alleged to have been negligently designed and/or labeled. At no time did this respiratory product line represent a significant portion of the respirator market.

The subsidiary transferred the business to Aearo Technologies ("Aearo") in July 1995. Cabot agreed to have the subsidiary retain certain liabilities associated with exposure to asbestos and silica while using respirators prior to the 1995 transaction so long as Aearo paid, and continues to pay, Cabot an annual fee of \$400,000. Aearo can discontinue payment of the fee at any time, in which case it will assume the responsibility for and indemnify Cabot against those liabilities which Cabot's subsidiary had agreed to retain. The Company anticipates that it will continue to receive payment of the \$400,000 fee from Aearo and thereby retain these liabilities for the foreseeable future. Cabot has no liability in connection with any products manufactured by Aearo after 1995. Because of the difficulty in determining when a particular respirator was manufactured, Aearo and Cabot have applied the retention of liabilities under the 1995 agreement to claims arising out of the alleged use of respirators involving exposure to asbestos, silica or silica products prior to January 1, 1997. On July 26, 2022, Aearo voluntarily filed for Chapter 11 bankruptcy protection with the stated goal of establishing a trust, funded by Aearo and its parent 3M, to satisfy respirator and other unrelated claims determined to be entitled to compensation. The Company will continue to monitor these proceedings for any impact on its liability for respirator claims.

In addition to Cabot's subsidiary and as described above, other parties are responsible for significant portions of the costs of respirator liabilities, leaving Cabot's subsidiary with a portion of the liability in only some of the pending cases. These parties include Aearo, AO, AO's insurers, another former owner and its insurers and a third-party manufacturer of respirators formerly sold under the AO brand and its insurers (collectively, with the Company's subsidiary, the "Payor Group").

Cabot has contributed to the Payor Group's defense and settlement costs with respect to a percentage of pending claims depending on several factors, including the period of alleged product use. In order to quantify Cabot's estimated share of liability for pending and future respirator liability claims, Cabot has periodically engaged, through counsel, the assistance of Gnarus Advisors, LLC ("Gnarus"), a consulting firm in the field of tort liability valuation.

The methodology used to estimate the liability addresses the complexities surrounding Cabot's potential liability by making assumptions about Cabot's likely exposure based on various factors, including the Payor Group's historical experience with these claims, the number of future claims and the cost to resolve pending and future claims. Using those and other assumptions, the Company estimates the costs that would be incurred in defending and resolving both currently pending and future claims.

In fiscal 2022, the Company recorded a charge of \$6 million related to the respirator liability which was included in Selling and administrative expense in the Consolidated Statements of Operations. The charge was primarily due to an increase in the number of CWP claims filed in 2022. As of September 30, 2022 and 2021, the Company had \$39 million and \$44 million, respectively, reserved for its estimated share of liability for pending and future respirator claims, the majority of which the Company expects to incur over the next ten years. The reserve is included in Other liabilities and Accounts payable and accrued liabilities on the Consolidated Balance Sheets.

The Company made payments related to its respirator liability of \$11 million in fiscal 2022, and \$37 million in both fiscal 2021 and fiscal 2020. The majority of the payments in fiscal 2020 and 2021 related to a February 2020 settlement agreement in which Cabot, with certain members of the Payor Group, resolved a large group of claims, including claims alleging serious injury, brought by coal workers in Kentucky and West Virginia represented by common legal counsel.

The Company's current estimate of the cost of its share of pending and future respirator liability claims is based on facts and circumstances existing at this time, including the number and nature of the remaining claims. Developments that could affect the Company's estimate include, but are not limited to, (i) significant changes in the number of future claims, (ii) changes in the rate of dismissals without payment of pending claims, (iii) significant changes in the average cost of resolving claims, including potential settlements of groups of claims, (iv) significant changes in the legal costs of defending these claims, (v) changes in the nature of claims received or changes in our assessment of the viability of these claims, (vi) trial and appellate outcomes, (vii) changes in the law and procedure applicable to these claims, (viii) the financial viability of the parties that contribute to the payment of respirator claims and developments in the Aearo bankruptcy proceedings, (ix) exhaustion or changes in the recoverability of the insurance coverage maintained by certain members of the Payor Group, or a change in the availability of the indemnity provided by a former owner of AO, (x) changes in the allocation of costs among the various parties paying legal and settlement costs, and (xi) a determination that the assumptions that were used to estimate Cabot's share of liability are no longer reasonable. The Company cannot determine the impact of these potential developments on its current estimate of its share of liability for existing and future claims. Because reserves are limited to amounts that are probable and estimable as of a relevant measurement date, and there is inherent difficulty in projecting the impact of potential developments on Cabot's share of liability for these existing and future claims, it is reasonably possible that the liabilities for existing and future claims could change in the near term and that change could be material.

Value-added Tax ("VAT") Matter

The Company has received assessments from a non-U.S. taxing authority for VAT related to certain sales made and services provided by certain of the Company's subsidiaries from 2014 through 2019. The Company believes these transactions are exempt from VAT and has filed legal actions challenging the taxing authority's application of VAT to them. Hearings on these matters are ongoing and it could potentially be a number of years before they are resolved. The Company believes its interpretation of these VAT rules is appropriate, and that it will be successful in its challenge against the taxing authority's assessments. Accordingly, the Company does not believe it is probable that it will incur a loss related to these matters. However, the interpretation and application of these VAT rules is an unsettled issue, and the resolution of tax and regulatory matters is unpredictable. If it is determined in these proceedings that VAT applies to some or all of these various transactions, the Company could incur a charge that ranges between nil and \$41 million for these matters, with the amount impacted by any interest and penalties associated with these matters and the amount, if any, of VAT the Company might subsequently recover from its customers.

Brazil Indirect Tax Settlements

The Company previously filed claims with the Brazilian tax authorities challenging the calculation of certain indirect taxes related to local social contributions for the years 2012 through 2019. During the third quarter of fiscal 2021, the Brazilian Federal Supreme Court rendered a final unappealable decision that clarified the methodology companies should use in the calculation. As a result of this decision, the Company is entitled to recover credits and associated interest related to the historical periods for overpayment of these indirect taxes to be used to offset future Brazilian tax liabilities. As such, the Company recorded a \$12 million benefit during fiscal 2021 of which \$9 million, related to the credit recovery was included in Net sales and other operating revenues and \$3 million, related to interest income was included in Other income (expense) in the Consolidated Statement of Operations.

Other Matters

The Company has various other lawsuits, claims and contingent liabilities arising in the ordinary course of its business and with respect to its divested businesses. The Company does not believe that any of these matters will have a material adverse effect on its financial position; however, litigation is inherently unpredictable. Cabot could incur judgments, enter into settlements or revise its

expectations regarding the outcome of certain matters, and such developments could have a material impact on its results of operations in the period in which the amounts are accrued or its cash flows in the period in which the amounts are paid.

Note T. Financial Information by Segment & Geographic Area

Segment Information

The Company identifies a business as an operating segment if: i) it engages in business activities from which it may earn revenues and incur expenses; ii) its operating results are regularly reviewed by the Chief Operating Decision Maker (“CODM”), who is Cabot’s President and Chief Executive Officer, to make decisions about resources to be allocated to the segment and assess its performance; and iii) it has available discrete financial information. The Company has determined that all of its businesses are operating segments. The CODM reviews financial information at the operating segment level to allocate resources and to assess the operating results and financial performance for each operating segment. Operating segments are aggregated into a reportable segment if the operating segments are determined to have similar economic characteristics and if the operating segments are similar in the following areas: i) nature of products and services; ii) nature of production processes; iii) type or class of customer for their products and services; iv) methods used to distribute the products or provide services; and v) if applicable, the nature of the regulatory environment.

The Company has two reportable segments: Reinforcement Materials and Performance Chemicals. The Company’s former Purification Solutions business was a separate reportable segment prior to divestiture in the second quarter of fiscal 2022.

Income (loss) from continuing operations before income taxes (“Segment EBIT”) is presented for each reportable segment in the financial information by the reportable segment table below on the line entitled Income (loss) from continuing operations before taxes. Segment EBIT excludes certain items, meaning items management does not consider representative of on-going operating segment results. In addition, Segment EBIT includes Equity in earnings of affiliated companies, net of tax, the full operating results of a contractual joint venture in Purification Solutions, royalties, Net income (loss) attributable to noncontrolling interests, net of tax, and discounting charges for certain Notes receivable, but excludes Interest expense, foreign currency transaction gains and losses, interest income, dividend income, unearned revenue, general unallocated expense and unallocated corporate costs. Segment assets exclude cash, short-term investments, cost investments, income taxes receivable, deferred taxes and headquarters’ assets, which are included in unallocated and other. Expenditures for additions to long-lived assets include total equity and other investments (including available-for-sale securities) and property, plant and equipment.

Reinforcement Materials

Carbon black is a form of elemental carbon that is manufactured in a highly controlled process to produce particles and aggregates of varied size, structure and surface chemistry, resulting in many different performance characteristics for a wide variety of applications. Reinforcing carbons (a class of carbon blacks manufactured by Cabot) are used to enhance the physical properties of the systems and applications in which they are incorporated.

The Company’s reinforcing carbons products are used in tires and industrial products. Reinforcing carbons have traditionally been used in the tire industry as a rubber reinforcing agent to increase tread durability and are also used as a performance additive to reduce rolling resistance and improve traction. In industrial products such as hoses, belts, extruded profiles and molded goods, reinforcing carbons are used to improve the physical performance of the product, including the product’s physical strength, fluid resistance, conductivity and resistivity.

In addition to its reinforcing carbons products, the Company manufactures engineered elastomer composites (“E2C™”) solutions that are composites of reinforcing carbons and rubber made using the Company’s patented elastomer composites manufacturing process. These composites improve abrasion/wear resistance, reduce fatigue of rubber parts and reduce rolling resistance compared to reinforcing carbons/rubber compounds made entirely by conventional rubber mix methods enabling rubber product manufacturers to reduce the need to make performance trade-offs.

Performance Chemicals

Performance Chemicals is organized into two businesses: the Company’s Performance Additives business and its Formulated Solutions business. The Company’s Performance Additives business combines its specialty carbons, battery materials, fumed metal oxides and aerogel product lines, and its Formulated Solutions business combines its specialty compounds and inkjet product lines. In Performance Chemicals, the Company designs, manufactures and sells materials that deliver performance in a broad range of customer applications across the automotive, construction, infrastructure, inkjet printing, electronics, and consumer products sectors, and applications related to generation, transmission and storage of energy. The Company’s focus areas for growth include conductive carbon additives and other materials for battery applications, and inkjet dispersions for post print corrugated packaging applications.

The net sales from each of these businesses for fiscal 2022, 2021 and 2020 are as follows:

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
Performance Additives	\$ 1,013	\$ 796	\$ 645
Formulated Solutions	359	352	288
Total Performance Chemicals	<u>\$ 1,372</u>	<u>\$ 1,148</u>	<u>\$ 933</u>

Performance Additives Business

The Company's specialty carbons are used to impart color, provide rheology control, enhance conductivity and static charge control, provide UV protection, enhance mechanical properties, and provide formulation flexibility through surface treatment. These specialty carbon products are used in a wide variety of applications, such as inks, coatings, cables, plastics, adhesives, toners, batteries and displays.

The Company's battery materials products include its conductive carbon additives and fumed alumina, which are used principally in advanced lead acid and lithium-ion batteries used in electric vehicles. The Company's conductive carbon additives consist of conductive carbons, carbon nanotubes and carbon nano-structures, and blends of these materials, each of which offers different levels of conductivity and formulation flexibility for battery manufacturers to address performance (energy density, fast charging), cost and safety. In lithium-ion batteries, the Company's conductive carbon additives are used in both cathode and anode applications to increase energy density by providing a conductive network between active materials. Fumed alumina is used to reduce cathode material and electrolyte decomposition and improve capacity retention leading to longer cycle life.

Fumed silica is an ultra-fine, high-purity particle used as a reinforcing, thickening, abrasive, thixotropic, suspending or anti-caking agent in a wide variety of products for the automotive, construction, microelectronics, batteries, and consumer products industries. These products include adhesives, sealants, cosmetics, batteries, inks, toners, silicone elastomers, coatings, polishing slurries and pharmaceuticals. In addition to its battery application, fumed alumina, also an ultra-fine, high-purity particle, is used as an abrasive, absorbent or barrier agent in a variety of products, such as inkjet media, lighting, coatings, cosmetics and polishing slurries.

Aerogel is a hydrophobic, silica-based particle with a high surface area that is used in a variety of thermal insulation and specialty chemical applications. In the building and construction industry, the product is used in insulative sprayable plasters and composite building products, as well as translucent skylight, window, wall and roof systems for insulating eco-daylighting applications. In the specialty chemicals industry, the product is used to provide matte finishing, insulating and thickening properties for use in a variety of applications, including thermal management for lithium-ion batteries.

Formulated Solutions Business

Cabot's masterbatch and conductive compound products, which Cabot refers to as "specialty compounds", are formulations derived from specialty carbons mixed with polymers and other additives. These products are generally used by plastic resin producers and converters in applications for the automotive, industrial, packaging, infrastructure, agricultural, consumer products, and electronics industries. As an alternative to directly mixing specialty carbon blacks, these formulations offer greater ease of handling and help customers achieve their desired levels of dispersion and color and manage the addition of small doses of additives. In addition, Cabot's electrically conductive compound products generally are used to help ensure uniform conductive performance and reduce risks associated with electrostatic discharge in plastics applications.

The Company's inkjet colorants are high-quality pigment-based black and color dispersions and inks. The Company's dispersions are based on patented pigment surface modification technology and polymer encapsulation technology. The dispersions are used in aqueous inkjet inks to impart color, sharp print characteristics and durability, while maintaining high printhead reliability. These products are used in various inkjet printing applications, including traditional work-from-home and corporate office settings, and, increasingly, in commercial and corrugated packaging printing, that all require a high level of dispersibility and colloidal stability. Our inkjet inks, which utilize our pigment-based colorant dispersions, are used in the commercial printing segment for digital print.

Purification Solutions

Cabot divested its Purification Solutions business on March 1, 2022. Refer to Note D for the terms of this transaction.

Financial information by reportable segment is as follows:

Years Ended September 30	Reinforcement Materials	Performance Chemicals	Purification Solutions	Segment Total ⁽¹⁾	Unallocated and Other ^{(2), (4)}	Consolidated Total
	(In millions)					
2022						
Revenues from external customers ⁽³⁾	\$ 2,575	\$ 1,372	\$ 97	\$ 4,044	\$ 277	\$ 4,321
Depreciation and amortization	\$ 70	\$ 72	\$ 3	\$ 145	\$ 1	\$ 146
Equity in earnings of affiliated companies	\$ 4	\$ 5	\$ 1	\$ 10	\$ —	\$ 10
Income (loss) from continuing operations before income taxes ⁽⁴⁾	\$ 408	\$ 234	\$ —	\$ 642	\$ (307)	\$ 335
Assets ⁽⁵⁾	\$ 1,691	\$ 1,458	\$ —	\$ 3,149	\$ 376	\$ 3,525
Total expenditures for additions to long-lived assets ⁽⁶⁾	\$ 114	\$ 100	\$ 3	\$ 217	\$ 4	\$ 221
2021						
Revenues from external customers ⁽³⁾	\$ 1,781	\$ 1,148	\$ 257	\$ 3,186	\$ 223	\$ 3,409
Depreciation and amortization	\$ 70	\$ 73	\$ 16	\$ 159	\$ 1	\$ 160
Equity in earnings of affiliated companies	\$ —	\$ 2	\$ 2	\$ 4	\$ (1)	\$ 3
Income (loss) from continuing operations before income taxes ⁽⁴⁾	\$ 329	\$ 211	\$ 10	\$ 550	\$ (144)	\$ 406
Assets ⁽⁵⁾	\$ 1,421	\$ 1,325	\$ 283	\$ 3,029	\$ 277	\$ 3,306
Total expenditures for additions to long-lived assets ⁽⁶⁾	\$ 104	\$ 80	\$ 9	\$ 193	\$ 5	\$ 198
2020						
Revenues from external customers ⁽³⁾	\$ 1,256	\$ 933	\$ 253	\$ 2,442	\$ 172	\$ 2,614
Depreciation and amortization	\$ 68	\$ 64	\$ 24	\$ 156	\$ 2	\$ 158
Equity in earnings of affiliated companies	\$ —	\$ 1	\$ 3	\$ 4	\$ (1)	\$ 3
Income (loss) from continuing operations before income taxes ⁽⁴⁾	\$ 162	\$ 118	\$ 3	\$ 283	\$ (316)	\$ (33)
Assets ⁽⁵⁾	\$ 1,077	\$ 1,145	\$ 296	\$ 2,518	\$ 263	\$ 2,781
Total expenditures for additions to long-lived assets ⁽⁶⁾	\$ 66	\$ 92	\$ 8	\$ 166	\$ 3	\$ 169

⁽¹⁾ Cabot divested its Purification Solutions business on March 1, 2022. Refer to Note D for the terms of this transaction.

⁽²⁾ Unallocated and Other includes certain items and eliminations necessary to reflect management's reporting of operating segment results. These items are reflective of the segment reporting presented to the CODM.

⁽³⁾ Consolidated Total Revenues from external customers reconciles to Net sales and other operating revenues on the Consolidated Statements of Operations. Revenues from external customers that are categorized as Unallocated and Other reflects royalties, external shipping and handling fees, the impact of unearned revenue, discounting charges for certain Notes receivable, by-product revenue, and indirect tax settlement credits. Details are provided in the table below.

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
Shipping and handling fees	\$ 162	\$ 153	\$ 113
By-product sales	122	73	62
Other	(7)	(3)	(3)
Total	<u>\$ 277</u>	<u>\$ 223</u>	<u>\$ 172</u>

⁽⁴⁾ Consolidated Total Income (loss) from continuing operations before income taxes reconciles to Income (loss) from continuing operations before income taxes and equity in earnings of affiliated companies on the Consolidated Statements of Operations. Total Income (loss) from continuing operations before income taxes that are categorized as Unallocated and Other includes:

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
Interest expense	\$ (56)	\$ (49)	\$ (53)
Certain items: ^(a)			
Gain on bargain purchase of a business (Note C)	\$ 24	\$ —	\$ —
Gain on sale of land	17	—	—
Specialty Fluids divestiture related benefit	5	—	—
Employee benefit plan settlement and other charges (Note M)	1	(4)	(10)
Loss on sale of business and asset impairment charge	(207)	—	—
Legal and environmental matters and reserves (Note S)	(9)	(25)	(54)
Purification Solutions divestiture related charges	(5)	—	—
Acquisition and integration-related charges	(6)	(5)	(5)
Global restructuring activities	(3)	(11)	(19)
Marshall Mine loss on sale and asset impairment charge (Note D)	—	—	(129)
Inventory reserve adjustment	—	—	(2)
Specialty Fluids loss on sale and asset impairment charge	—	—	(1)
Indirect tax settlement credits	—	12	3
Other certain items	—	(1)	(1)
Total certain items, pre-tax	(183)	(34)	(218)
Unallocated corporate costs ^(b)	(59)	(58)	(41)
General unallocated income (expense) ^(c)	1	—	(1)
Less: Equity in earnings of affiliated companies, net of tax ^(d)	10	3	3
Total	\$ (307)	\$ (144)	\$ (316)

(a) Certain items are items that management does not consider representative of operating segment results and they are, therefore, excluded from Segment EBIT.

(b) Unallocated corporate costs are not controlled by the segments and primarily benefit corporate interests.

(c) General unallocated income (expense) consists of gains (losses) arising from foreign currency transactions, net of other foreign currency risk management activities, interest income, dividend income, the profit or loss related to the corporate adjustment for unearned revenue, and the impact of including the full operating results of a contractual joint venture in Purification Solutions Segment EBIT.

(d) Equity in earnings of affiliated companies, net of tax is included in Segment EBIT and is removed from Unallocated and other to reconcile to income (loss) from operations before taxes.

(5) Unallocated and Other assets includes cash, marketable securities, cost investments, income taxes receivable, deferred taxes, headquarters' assets, and current and non-current assets held for sale.

(6) Expenditures for additions to long-lived assets include total equity and other investments (including available-for-sale securities) and property, plant and equipment.

Geographic Information

Revenues from external customers attributable to an individual country, other than the U.S. and China, were not material for disclosure. Revenues from external customers by individual country are summarized as follows:

	Years Ended September 30		
	2022	2021	2020
	(In millions)		
United States	\$ 842	\$ 668	\$ 581
China	1,129	858	598
Other countries	2,350	1,883	1,435
Total	\$ 4,321	\$ 3,409	\$ 2,614

Each of the Company's segments operates globally. In addition to presenting Revenue from external customers by reportable segment, the following tables further disaggregate Revenue from external customers by geographic region.

	Year Ended September 30, 2022			
	Reinforcement Materials	Performance Chemicals	Purification Solutions	Consolidated Total
	(In millions)			
Americas	\$ 1,057	\$ 417	\$ 43	\$ 1,517
Asia Pacific	1,009	563	14	1,586
Europe, Middle East and Africa	509	392	40	941
Segment revenues from external customers	2,575	1,372	97	4,044
Unallocated and other				277
Net sales and other operating revenues				<u>\$ 4,321</u>

	Year Ended September 30, 2021			
	Reinforcement Materials	Performance Chemicals	Purification Solutions	Consolidated Total
	(In millions)			
Americas	\$ 699	\$ 310	\$ 110	\$ 1,119
Asia Pacific	745	485	34	1,264
Europe, Middle East and Africa	337	353	113	803
Segment revenues from external customers	1,781	1,148	257	3,186
Unallocated and other				223
Net sales and other operating revenues				<u>\$ 3,409</u>

	Year Ended September 30, 2020			
	Reinforcement Materials	Performance Chemicals	Purification Solutions	Consolidated Total
	(In millions)			
Americas	\$ 490	\$ 266	\$ 112	\$ 868
Asia Pacific	529	368	34	931
Europe, Middle East and Africa	237	299	107	643
Segment revenues from external customers	1,256	933	253	2,442
Unallocated and other				172
Net sales and other operating revenues				<u>\$ 2,614</u>

Property, plant and equipment attributable to an individual country, other than the U.S. and China, were not material for disclosure. Property, plant and equipment information by individual country is summarized as follows:

	Years Ended September 30	
	2022	2021
(In millions)		
United States	\$ 524	\$ 513
China	333	333
Other countries	413	530
Total	<u>\$ 1,270</u>	<u>\$ 1,376</u>

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Shareholders and the Board of Directors of Cabot Corporation

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Cabot Corporation and subsidiaries (the "Company") as of September 30, 2022 and 2021, the related consolidated statements of operations, comprehensive income, stockholders' equity, and cash flows, for each of the three years in the period ended September 30, 2022, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of September 30, 2022 and 2021, and the results of its operations and its cash flows for each of the three years in the period ended September 30, 2022, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of September 30, 2022, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated November 23, 2022, expressed an unqualified opinion on the Company's internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Commitments and Contingencies — Respirator Liabilities — Refer to Note 5 to the consolidated financial statements

Critical Audit Matter Description

The Company has exposure in connection with a safety respiratory products business previously owned by one of its subsidiaries. The Company has a \$39 million reserve as of September 30, 2022, referred to as respirator liabilities. The respirator liabilities are estimated based on management's assumptions, which include the number of future claims and the estimated cost to resolve pending and future claims.

We identified respirator liabilities related to coal worker's pneumoconiosis ("CWP") as a critical audit matter because there is significant uncertainty related to the number of future claims and the estimate of the cost to resolve pending and future claims. The estimation of respirator liabilities related to CWP required a high degree of auditor judgment and an increased extent of effort, including the need to involve our actuarial specialists, when performing audit procedures to evaluate the reasonableness of the recorded CWP respirator liabilities as of September 30, 2022.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to respirator liabilities included the following, among others:

- We tested the effectiveness of controls over the calculation of the respirator liabilities as well as the assumptions and claims data utilized in the calculation.
- We evaluated the methods and assumptions used by management to estimate the CWP respirator liabilities by utilizing our actuarial specialists to assist with the calculation of an independent estimate of the CWP respirator liabilities and comparing our estimate to the Company's estimate.
- We assessed the appropriateness of the disclosures in the financial statements.

/s/ Deloitte & Touche LLP

Boston, Massachusetts

November 23, 2022

We have served as the Company's auditor since 2007.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Shareholders and the Board of Directors of Cabot Corporation

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Cabot Corporation and subsidiaries (the “Company”) as of September 30, 2022, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of September 30, 2022, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended September 30, 2022, of the Company and our report dated November 23, 2022, expressed an unqualified opinion on those financial statements.

As described in Management’s Annual Report on Internal Control Over Financial Reporting, management excluded from its assessment the internal control over financial reporting at Tokai Carbon (Tianjin) Co., which was acquired on February 28, 2022 and whose financial statements reflect total assets and revenues constituting 1% and less than 1%, respectively, of the consolidated financial statement amounts as of and for the year ended September 30, 2022. Accordingly, our audit did not include the internal control over financial reporting at Tokai Carbon (Tianjin) Co.

Basis for Opinion

The Company’s management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying *Management’s Annual Report on Internal Control Over Financial Reporting*. Our responsibility is to express an opinion on the Company’s internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company’s internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company’s internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company’s assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

Boston, Massachusetts
November 23, 2022

PART II

Item 9. *Changes in and Disagreements with Accountants on Accounting and Financial Disclosure*

None.

Item 9A. *Controls and Procedures*

Disclosure Controls and Procedures

Cabot carried out an evaluation, under the supervision and with the participation of its management, including its principal executive officer and its principal financial officer, of the effectiveness of the Company's disclosure controls and procedures pursuant to Rule 13a-15 under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), as of September 30, 2022. Based on that evaluation, Cabot's principal executive officer and its principal financial officer concluded that the Company's disclosure controls and procedures are effective with respect to the recording, processing, summarizing and reporting, within the time periods specified in the Securities and Exchange Commission's rules and forms, of information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act and such information is accumulated and communicated to management to allow timely decisions regarding required disclosure.

Management's Annual Report on Internal Control Over Financial Reporting

Cabot's management is responsible for establishing and maintaining adequate internal control over financial reporting for Cabot. Internal control over financial reporting is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act as a process designed by, or under the supervision of, a company's principal executive and principal financial officers, and effected by the company's board of directors, management and other personnel, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles and includes those policies and procedures that:

- Pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the company;
- Provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and
- Provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of the effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies or procedures may deteriorate.

Cabot's management assessed the effectiveness of Cabot's internal control over financial reporting as of September 30, 2022 based on the framework established in *Internal Control—Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Management excluded from its assessment the internal control over financial reporting at Tokai Carbon (Tianjin) Co., which was acquired on February 28, 2022, and whose financial statements reflect total assets and revenues constituting 1% and less than 1%, respectively, of the consolidated financial statement amounts as of and for the year ended September 30, 2022. Based on this assessment, Cabot's management concluded that Cabot's internal control over financial reporting was effective as of September 30, 2022.

Cabot's internal control over financial reporting as of September 30, 2022 has been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report above.

Changes in Internal Control Over Financial Reporting

There were no changes in the Company's internal control over financial reporting that occurred during the Company's fiscal quarter ending September 30, 2022 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting. As a result of the COVID-19 pandemic, certain of our employees, particularly in certain of our business service centers, have needed to work remotely for periods of time. We have not identified any material changes in our internal control over financial reporting as a result of these changes to the working environment. We will continue to monitor and assess the COVID-19 situation to determine any potential impacts on the design and operating effectiveness of our internal controls over financial reporting.

Item 9B. *Other Information*

None.

Item 9C. *Disclosure Regarding Foreign Jurisdictions that Prevent Inspections*

None.

PART III

Item 10. *Directors, Executive Officers and Corporate Governance*

Certain information regarding our executive officers is included at the end of Part I of this annual report under the heading “Information about our Executive Officers.”

Cabot has adopted a Code of Business Ethics that applies to all of the Company’s employees and directors, including the Chief Executive Officer, the Chief Financial Officer, the Controller and other senior financial officers. The Code of Business Ethics is posted on our website, www.cabotcorp.com (under the “About Cabot” caption under “Company”). We intend to satisfy the disclosure requirement regarding any amendment to, or waiver of, a provision of the Code of Business Ethics applicable to the Chief Executive Officer, the Chief Financial Officer, the Controller or other senior financial officers by posting such information on our website.

The other information required by this item will be included in our Proxy Statement for the 2023 Annual Meeting of Stockholders (“Proxy Statement”) and is herein incorporated by reference.

Item 11. *Executive Compensation*

The information required by this item will be included in our Proxy Statement and is incorporated herein by reference.

Item 12. *Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters*

The information relating to security ownership of certain beneficial owners of our common stock and information relating to the security ownership of our management required by this item will be included in our Proxy Statement and is incorporated herein by reference.

The following table provides information as of September 30, 2022 about: (i) the number of shares of common stock that may be issued upon exercise of outstanding options and vesting of restricted stock units; (ii) the weighted-average exercise price of outstanding options; and (iii) the number of shares of common stock available for future issuance under our active plans: the Amended and Restated 2017 Long-Term Incentive Plan and the 2015 Directors’ Stock Compensation Plan. All of our equity compensation plans have been approved by our stockholders.

Plan category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a) ⁽¹⁾	Weighted-average exercise price of outstanding option, warrants and rights (b) ⁽²⁾	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c) ⁽³⁾
Equity compensation plans approved by security holders	2,712,785	\$ 49.89	4,434,300
Equity compensation plans not approved by security holders	N/A	N/A	N/A

⁽¹⁾ Includes (i) 1,574,489 shares issuable upon exercise of outstanding stock options, (ii) 475,763 shares issuable upon vesting of time-based restricted stock units, (iii) 410,519 shares issuable upon vesting of performance-based restricted stock units based upon the achievement of the annual financial performance metrics for the three years within the three-year performance period of the fiscal 2020 awards, the first two years within the three-year performance period of the fiscal 2021 awards, and the first year within the three-year performance period of the fiscal 2022 awards; and (iv) 252,014 shares issuable upon vesting of the performance-based stock units attributable to year three of the 2021 awards and years two and three of the 2022 awards, assuming Cabot performs at the maximum performance level in each of those years. If, instead, Cabot performs at the target level of performance in those years, a total of 126,007 shares would be issuable for year three of the 2021 awards and years two and three of the 2022 awards.

⁽²⁾ The weighted-average exercise price includes all outstanding stock options but does not include restricted stock units which do not have an exercise price.

⁽³⁾ Of these shares, (i) 4,241,586 shares remain available for future issuance under the Amended and Restated 2017 Long-Term Incentive Plan, and (ii) 192,714 remain available for future issuance under the 2015 Directors’ Stock Compensation Plan.

The other information required by this item will be included in our Proxy Statement and is incorporated herein by reference.

Item 13. *Certain Relationships and Related Transactions, and Director Independence*

The information required by this item will be included in our Proxy Statement and is incorporated herein by reference.

Item 14. *Principal Accounting Fees and Services*

The information required by this item will be included in our Proxy Statement and is incorporated herein by reference.

PART IV

Item 15. Exhibits, Financial Statement Schedules

(a) *Financial Statements.*

See “Index to Financial Statements” under Item 8 of this Form 10-K.

(b) *Schedules.*

The Schedules have been omitted since the required information is not applicable or is not present in amounts sufficient to require submission of the schedule, or because the information required is included in the consolidated financial statements and notes thereto included in this Form 10-K.

(c) *Exhibits.* (Certain exhibits not included in copies of the Form 10-K sent to stockholders.)

The exhibit numbers in the Exhibit Index correspond to the numbers assigned to such exhibits in the Exhibit Table of Item 601 of Regulation S-K. Cabot will furnish to any stockholder, upon written request, any exhibit listed in the Exhibit Index, upon payment by such stockholder of the Company’s reasonable expenses in furnishing such exhibit.

Exhibit Number	Description
3(a)	Restated Certificate of Incorporation of Cabot Corporation effective January 9, 2009 (incorporated herein by reference to Exhibit 3.1 of Cabot’s Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2008, file reference 1-5667, filed with the SEC on February 9, 2009).
3(b)	The By-laws of Cabot Corporation as amended January 7, 2021 (incorporated herein by reference to Exhibit 3.1 of Cabot’s Corporation’s Current Report on Form 8-K, file reference 1-5667, filed with the SEC on January 12, 2021).
4(a)	Indenture, dated as of December 1, 1987, between Cabot Corporation and The First National Bank of Boston, Trustee (the “Indenture”).(incorporated herein by reference to Exhibit 4(a)(i) of Cabot’s Annual Report on Form 10-K for its fiscal year ended September 30, 2017, file reference 1-5667, filed with the SEC on November 22, 2017).
4(a)(i)	Second Supplemental Indenture, dated as of January 31, 1997, between Cabot Corporation and State Street Bank and Trust Company, Trustee (incorporated herein by reference to Exhibit 4 of Cabot’s Quarterly Report on Form 10-Q for the quarterly period ended December 31, 1996, file reference 1-5667, filed with the SEC on February 14, 1997).
4(a)(ii)	Indenture, dated as of September 15, 2016, between Cabot Corporation and U.S. Bank National Association, as Trustee (incorporated herein by reference to Exhibit 4.1 of Cabot Corporation’s Current Report on Form 8-K dated September 15, 2016, file reference 1-5667, filed with the SEC on September 15, 2016).
4(a)(iii)	First Supplemental Indenture, dated as of September 15, 2016, between Cabot Corporation and U.S. Bank National Association, as Trustee, including the form of Global Note attached as Annex A thereto, supplementing the Indenture dated as of September 15, 2016 (incorporated herein by reference to Exhibit 4.2 of Cabot Corporation’s Current Report on Form 8-K dated September 15, 2016, file reference 1-5667, filed with the SEC on September 15, 2016).
4(a)(iv)	Second Supplemental Indenture, dated June 20, 2019, between Cabot Corporation and U.S. Bank National Association, including the form of Global Note attached as Annex A thereto supplementing the Indenture dates as of September 15, 2016 (incorporated by reference to Exhibit 4.1 of Cabot Corporation’s Current Report on Form 8-K dated June 20, 2019, file reference 1-5667, filed with the SEC on June 20, 2019).
4(a)(v)	Indenture, dated June 22, 2022, between Cabot Corporation and U.S. Bank Trust Company, National Association (incorporated herein by reference to Exhibit 4.1 of Cabot Corporation’s Current Report on Form 8-K dated June 22, 2022, file reference 1-5667, filed with SEC on June 22, 2022).
4(a)(vi)	First Supplemental Indenture, dated June 22, 2022, between Cabot Corporation and U.S. Bank Trust Company, National Association. including the form of Global Note attached as Annex A thereto, supplementing the Indenture dated as of June 22, 2022 (incorporated herein by reference to Exhibit 4.2 of Cabot Corporation’s Current Report on Form 8-K dated June 22, 2022, file reference 1-5667, filed with SEC on June 22, 2022).

Exhibit Number	Description
4(b)	Description of Cabot Securities (incorporated by reference to Exhibit 4(b) of Cabot Corporation's Annual Report on Form 10-K for its fiscal year ended September 30, 2019, file reference 1-5667, filed with the SEC on November 22, 2019).
10(a)	Credit Agreement, dated August 6, 2021, among Cabot Corporation, JPMorgan Chase Bank, N.A., J.P. Morgan Securities LLC, Citibank, N.A., Bank of America, N.A., Mizuho Bank, Ltd., TD Bank, N.A., and Wells Fargo Bank, National Association, and the other lenders party thereto (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2021, file reference 1-5667, filed with the SEC on August 9, 2021).
10(b)	Amended and Restated Credit Agreement, dated as of October 19, 2021, among certain subsidiaries of Cabot Corporation, guaranteed by Cabot Corporation, Wells Fargo Bank, National Association, PNC Bank, National Association, U.S. Bank National Association, Mizuho Bank, Ltd., and the other lenders party thereto.
10(c)*	2009 Long-Term Incentive Plan (incorporated herein by reference to Appendix B of Cabot's Proxy Statement on Schedule 14A relating to the 2012 Annual Meeting of Stockholders, file reference 1-5667, filed with the SEC on January 30, 2012).
10(c)(i)*	2017 Long-Term Incentive Plan (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2017, file reference 1-5667, filed with the SEC on May 8, 2017).
10(c)(ii)*	Amended and Restated 2017 Long-Term Incentive Plan (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2021, file reference 1-5667, filed with the SEC on May 5, 2021).
10(c)(iii)*	2015 Directors' Stock Compensation Plan (incorporated herein by reference to Appendix B of Cabot's Proxy Statement on Schedule 14A relating to the 2015 Annual Meeting of Stockholders, file reference 1-5667, filed with the SEC on January 28, 2015).
10(c)(vi)*	Cabot Corporation 2018 Short-Term Incentive Compensation Plan (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2018 file reference 1-5667, filed with the SEC on February 8, 2019).
10(d)*	Cabot Corporation Amended and Restated Senior Management Severance Protection Plan, dated March 9, 2012 (incorporated herein by reference to Exhibit 10.5 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2012, file reference 1-5667, filed with the SEC on May 7, 2012).
10(e)*	Form of Performance-Based Restricted Stock Unit Award Certificate under the Cabot Corporation 2017 Long-Term Incentive Plan (incorporated herein by reference to Exhibit 10(e) of Cabot's Annual Report on Form 10-K for its fiscal year ended September 30, 2019, file reference 1-5667, filed with the SEC on November 21, 2018).
10(f)*	Form of Time-Based Restricted Stock Unit Award Certificate under the Cabot Corporation 2017 Long-Term Incentive Plan (incorporated herein by reference to Exhibit 10(f) of Cabot's Annual Report on Form 10-K for its fiscal year ended September 30, 2019, file reference 1-5667, filed with the SEC on November 21, 2018).
10(g)*	Form of Stock Option Award Certificate under the Cabot Corporation 2017 Long-Term Incentive Plan (incorporated herein by reference to Exhibit 10(g) of Cabot's Annual Report on Form 10-K for its fiscal year ended September 30, 2019 file reference 1-5667, filed with the SEC on November 21, 2018).
10(h)*	Cabot Corporation Deferred Compensation and Supplemental Retirement Plan, amended and restated January 1, 2014 (incorporated herein by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2013, file reference 1-5667, filed with the SEC on February 6, 2014).

Exhibit Number	Description
10(i)*	Cabot Corporation Non-Employee Directors' Deferral Plan, amended and restated January 1, 2014 (incorporated herein by reference to Exhibit 10.2 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2013, file reference 1-5667, filed with the SEC on February 6, 2014).
10(j)*	Offer Letter dated February 12, 2021 between Cabot Corporation and Jeff Zhu, as amended by letter agreement dated February 4, 2021 (incorporated by reference to Exhibit 10.1 of Cabot's Quarterly Report on Form 10-Q for the quarterly period ended December 31, 2020, file reference 1-5667, filed with the SEC on February 5, 2021).
10(k)*†	Form of Indemnification Agreement.
21†	Subsidiaries of Cabot Corporation.
23†	Consent of Deloitte & Touche LLP.
31(i)†	Certification of Principal Executive Officer required by Rule 13a-14(a) or Rule 15d-14(a) of the Exchange Act.
31(ii)†	Certification of Principal Financial Officer required by Rule 13a-14(a) or Rule 15d-14(a) of the Exchange Act.
32††	Certifications of the Principal Executive Officer and Principal Financial Officer pursuant to 18 U.S.C. Section 1350.
101.INS†	Inline XBRL Instance Document – the instance document does not appear in the Interactive Data File because XBRL tags are embedded within the Inline XBRL document.
101.SCH†	Inline XBRL Taxonomy Extension Schema Document.
101.CAL†	Inline XBRL Taxonomy Extension Calculation Linkbase Document.
101.DEF†	Inline XBRL Taxonomy Extension Definition Linkbase Document.
101.LAB†	Inline XBRL Taxonomy Extension Label Linkbase Document.
101.PRE†	Inline XBRL Taxonomy Extension Presentation Linkbase Document.
104*	Cover Page Interactive Data File (embedded within the Inline XBRL document).

* Management contract or compensatory plan or arrangement.

† Filed herewith.

†† Furnished herewith.

Item 16. Form 10-K Summary

None.

Principal Executive Officer Certification

I, Sean D. Keohane, certify that:

1. I have reviewed this annual report on Form 10-K of Cabot Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 23, 2022

/s/ SEAN D. KEOHANE

Sean D. Keohane
President and
Chief Executive Officer

Principal Financial Officer Certification

I, Erica McLaughlin, certify that:

1. I have reviewed this annual report on Form 10-K of Cabot Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 23, 2022

/s/ ERICA MCLAUGHLIN

Erica McLaughlin
Senior Vice President and
Chief Financial Officer

**Certifications Pursuant to 18 U.S.C. Section 1350,
as Adopted Pursuant to Section 906 of the
Sarbanes-Oxley Act of 2002**

In connection with the filing of the Annual Report on Form 10-K for the year ended September 30, 2022 (the "Report") by Cabot Corporation (the "Company"), each of the undersigned hereby certifies pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to his knowledge:

1. The Report fully complies with the requirements of section 13 (a) or 15 (d) of the Securities Exchange Act of 1934, as amended; and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

November 23, 2022

/s/ SEAN D. KEOHANE

**Sean D. Keohane
President and
Chief Executive Officer**

November 23, 2022

/s/ ERICA MCLAUGHLIN

**Erica McLaughlin
Senior Vice President and
Chief Financial Officer**

CORPORATE HEADQUARTERS

Cabot Corporation
Two Seaport Lane, Suite 1400
Boston, Massachusetts 02210-2019
617 345 0100

Investor Relations

Investor inquiries are welcome and individuals are invited to contact us through our investor website at cabotcorp.com/investors or by telephone at 617 342 6255.

Stock Listing

Cabot Corporation common stock is listed on the New York Stock Exchange under the symbol CBT.

Annual Meeting

The Annual Meeting of Stockholders will be held on March 9, 2023 at 4:00 p.m. ET in a virtual meeting format via live webcast at meetnow.global/MRSVEFL. All stockholders are invited to attend.

Stock Transfer Agent and Registrar

Registered shareholders may contact the transfer agent by Internet, phone or in writing for information or assistance with receiving proxy materials electronically by internet, transfers of stock ownership, direct deposit of dividend payments, dividend check replacements, account history, lost stock certificates, taxable income or to report address changes. The transfer agent provides telephone assistance Monday through Friday, 9:00 a.m. to 5:00 p.m. ET. Extended service is available 24 hours a day, seven days a week to callers with touch-tone telephones through the transfer agent's Interactive Voice Response (IVR) System.

When using the IVR system, mention Cabot Corporation as your stock holding and be prepared to provide your name, Social Security number, if applicable, or your Computershare account number. Please include your address and telephone number in all correspondence with the transfer agent.

Computershare Trust Company, N.A.
c/o Computershare
P.O. Box 43006
Providence, RI 02940-3006

Overnight correspondence should be sent to:
Computershare
150 Royall Street, Suite 101
Canton, MA 02021

Stockholder Inquiries: 781 575 3170 or 800 730 4001

For the hearing impaired: 800 952 9245 (TTY/TDD)

As an alternative to calling Computershare, you can easily manage your account anytime, anywhere with no waiting by visiting their Quick Access Hub at <http://cshare.us/qahub> to view statements, stock value, share balance, replace checks, add or change account beneficiaries, update an address, and enroll in direct deposit or to receive text message notifications.

Stockholder Website: computershare.com/investor

Click on "Contact Us" link at the top or bottom of the webpage for online stockholder inquiries.

For more information about Cabot Corporation and our businesses, please visit our website at: cabotcorp.com

