

MINERALS TECHNOLOGIES INC
Form 10-K
February 21, 2014

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 December 31, 2013

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 1-11430

MINERALS TECHNOLOGIES INC.
(Exact name of registrant as specified in its charter)

Delaware 25-1190717
(State or other jurisdiction of (I.R.S. Employer
incorporation or organization) Identification Number)
622 Third Avenue
38th Floor 10017-6707
New York, New York (Zip Code)
(Address of principal executive office)
(212) 878-1800

(Registrant's telephone number, including area code)
Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Name of each exchange on which registered
Common Stock, \$.10 par value	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act:

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 Registrant is not required to file reports pursuant to Section 13 or 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 and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted 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 and post such files).

Yes No

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Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of the Registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. [X].

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

Large Accelerated Filer [X] Accelerated Filer [] Non-accelerated Filer [] Smaller Reporting Company []
(Do not check if smaller reporting company)

Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Act).
Yes [] No [X]

The aggregate market value of the voting stock held by non-affiliates of the Registrant, based upon the closing price at which the stock was sold as of June 28, 2013, was approximately \$1.2 billion. Solely for the purposes of this calculation, shares of common stock held by officers, directors and beneficial owners of 10% or more of the outstanding common stock have been excluded in that such persons may be deemed to be affiliates. This determination of affiliate status is not necessarily a conclusive determination for other purposes.

As of February 10, 2014, the Registrant had outstanding 34,429,055 shares of common stock, all of one class.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's Proxy Statement for its 2014 Annual Meeting of Stockholders are incorporated herein by reference in Part III of this Annual Report on Form 10-K.

MINERALS TECHNOLOGIES INC.
2013 FORM 10-K ANNUAL REPORT
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PART I

Item 1. Business

Minerals Technologies Inc. (the "Company") is a resource- and technology-based company that develops, produces and markets worldwide a broad range of specialty mineral, mineral-based and synthetic mineral products and supporting systems and services. The Company has two reportable segments: Specialty Minerals and Refractories. The Specialty Minerals segment produces and sells the synthetic mineral product precipitated calcium carbonate ("PCC") and processed mineral product quicklime ("lime"), and mines mineral ores then processes and sells natural mineral products, primarily limestone and talc. This segment's products are used principally in the paper, building materials, paint and coatings, glass, ceramic, polymer, food, automotive and pharmaceutical industries. The Refractories segment produces and markets monolithic and shaped refractory materials and specialty products, services and application and measurement equipment, and calcium metal and metallurgical wire products. Refractories segment products are primarily used in high-temperature applications in the steel, non-ferrous metal and glass industries.

The Company maintains a research and development focus. The Company's research and development capability for developing and introducing technologically advanced new products has enabled the Company to anticipate and satisfy changing customer requirements, creating market opportunities through new product development and product application innovations.

Specialty Minerals Segment

PCC Products and Markets

The Company's PCC product line net sales were \$547.2 million, \$537.4 million and \$548.6 million for the years ended December 31, 2013, 2012 and 2011, respectively. The Company's sales of PCC have been, and are expected to continue to be, made primarily to the printing and writing papers segment of the paper industry. The Company also produces PCC for sale to companies in the polymer, food and pharmaceutical industries.

PCC Products - Paper

In the paper industry, the Company's PCC is used:

- As a filler in the production of coated and uncoated wood-free printing and writing papers, such as office papers;
- As a filler in the production of coated and uncoated groundwood (wood-containing) paper such as magazine and catalog papers; and
- As a coating pigment for both wood-free and groundwood papers.

The Company's Paper PCC product line net sales were \$480.0 million, \$471.5 million and \$485.0 million for the years ended December 31, 2013, 2012 and 2011, respectively.

Approximately 47% of the Company's sales consist of PCC sold to papermakers from "satellite" PCC plants. A satellite PCC plant is a PCC manufacturing facility located near a paper mill, thereby eliminating costs of transporting PCC from remote production sites to the paper mill. The Company believes the competitive advantages offered by improved economics and superior optical characteristics of paper produced with PCC manufactured by the Company's satellite PCC plants resulted in substantial growth in the number of the Company's satellite PCC plants since the first such plant was built in 1986. For information with respect to the locations of the Company's PCC plants as of December 31, 2013, see Item 2, "Properties," below.

The Company currently manufactures several customized PCC product forms using proprietary processes. Each product form is designed to provide optimum balance of paper properties including brightness, opacity, bulk, strength and improved printability. The Company's research and development and technical service staffs focus on expanding sales from its existing and potential new satellite PCC plants as well as developing new technologies for new applications. These technologies include, among others, acid-tolerant ("AT[®]") PCC, which allows PCC to be introduced to the large wood-containing segment of the printing and writing paper market, OPACARB[®] PCC, a family of products for paper coating, and our FulFill[®] family of products, a system of high-filler technologies that offers papermakers a variety of efficient, flexible solutions which decrease dependency on natural fibers.

The Company owns, staffs, operates and maintains all of its satellite PCC facilities, and owns or licenses the related technology. Generally, the Company and its paper mill customers enter into long-term evergreen agreements, initially ten years in length, pursuant to which the Company supplies substantially all of the customer's precipitated calcium carbonate filler requirements. The Company is generally permitted to sell to third-parties PCC produced at a satellite plant in excess of the host paper mill's requirement.

The Company also sells a range of PCC products to paper manufacturers from production sites not associated with paper mills. These merchant facilities are located at Adams, Massachusetts and Lifford, United Kingdom.

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PCC Markets - Paper

Uncoated Wood-Free Printing and Writing Papers – North America. Beginning in the mid-1980's, as a result of a concentrated research and development effort, the Company's satellite PCC plants facilitated the conversion of a substantial percentage of North American uncoated wood-free printing and writing paper producers to lower-cost alkaline papermaking technology. The Company estimates that during 2013, more than 90% of North American uncoated wood-free paper was produced employing alkaline technology. Presently, the Company owns and operates 16 commercial satellite PCC plants located at paper mills that produce uncoated wood-free printing and writing papers in North America.

Uncoated Wood-Free Printing and Writing Papers – Outside North America. The Company estimates the amount of uncoated wood-free printing and writing papers produced outside of North America at facilities that can be served by satellite and merchant PCC plants is more than twice as large (measured in tons of paper produced) as the North American uncoated wood-free paper market currently served by the Company. The Company believes that the superior brightness, opacity and bulking characteristics offered by its PCC products allow it to compete with suppliers of ground limestone and other filler products outside of North America. Presently, the Company owns and operates 23 commercial satellite PCC plants located at paper mills that produce uncoated wood-free printing and writing papers outside of North America.

Uncoated Groundwood Paper. The uncoated groundwood paper market, including newsprint, represents approximately 20% of worldwide paper production. Paper mills producing wood-containing paper still generally employ acid papermaking technology. The conversion to alkaline technology by these mills has been hampered by the tendency of wood-containing papers to darken in an alkaline environment. The Company has developed proprietary application technology for the manufacture of high-quality groundwood paper in an acidic environment using PCC (AT[®] PCC). Furthermore, as groundwood or wood-containing paper mills use larger quantities of recycled fiber, there is a trend toward the use of neutral papermaking technology in this segment for which the Company presently supplies traditional PCC chemistries. The Company now supplies PCC at 10 groundwood paper mills around the world and licenses its technology to a ground calcium carbonate producer to help accelerate the conversion from acid to alkaline papermaking.

Coated Paper. The Company continues to pursue satellite PCC opportunities in coated paper markets where our products provide unique performance and/or cost reduction benefits to papermakers and printers. Our Opacarb product line is designed to create value to the papermaker and can be used alone or in combination with other coating pigments. PCC coating products are produced at 8 of the Company's PCC plants worldwide.

Specialty PCC Products and Markets

The Company also produces and sells a full range of dry PCC products on a merchant basis for non-paper applications. The Company's Specialty PCC product line net sales were \$67.2 million, \$65.9 million and \$63.6 million for the years ended December 31, 2013, 2012 and 2011, respectively. The Company sells surface-treated and untreated grades of PCC to the polymer industry for use in automotive and construction applications, and to the adhesives and printing inks industries. The Company's PCC is also used by the food and pharmaceutical industries as a source of calcium in tablets and food applications, as a buffering agent in tablets, and as a mild abrasive in toothpaste. The Company produces PCC for specialty applications from production sites at Adams, Massachusetts and Lifford, England.

Processed Minerals - Products and Markets

The Company mines and processes natural mineral products, primarily limestone and talc. The Company also manufactures lime, a limestone-based product. The Company's net sales of processed mineral products were \$122.6 million, \$116.0 million and \$115.5 million for the years ended December 31, 2013, 2012 and 2011, respectively. Net sales of talc products were \$50.9 million, \$48.1 million and \$46.9 million for the years ended December 31, 2013, 2012 and 2011, respectively. Net sales of ground calcium carbonate ("GCC") products, which are principally lime and limestone, were \$71.7 million, \$67.9 million and \$68.6 million for the years ended December 31, 2013, 2012 and 2011, respectively.

The Company mines and processes GCC products at its reserves in the eastern and western parts of the United States. GCC is used and sold in the construction, automotive and consumer markets.

Lime produced at the Company's Adams, Massachusetts, and Lifford, United Kingdom, facilities is used primarily as a raw material for the manufacture of PCC at these sites and is sold commercially to various chemical and other industries.

The Company mines, beneficiates and processes talc at its Barretts site, located near Dillon, Montana. Talc is sold worldwide in finely ground form for ceramic applications and in North America for paint and coatings and polymer applications. Because of the exceptional chemical purity of the Barretts ore, a significant portion of worldwide automotive catalytic converter ceramic substrates contain the Company's Barretts talc.

The Company's natural mineral products are supported by the Company's limestone reserves located in the western and eastern parts of the United States, and talc reserves located in Montana. The Company estimates these reserves, at current usage levels, to be in excess of 30 years at its limestone production facilities and approximately 20 years at its talc production facility. See Item 2, "Properties," for more information with respect to those facilities.

Our high quality limestone, dolomitic limestone, and talc products are defined primarily by the chemistry and color characteristics of the ore bodies. Ore samples are analyzed by x-ray fluorescence (XRF) and other techniques to determine purity and more generally by Hunter brightness measurement to determine dry brightness and the Hunter yellowness (b) value. We serve multiple markets from each of our operations, each of which has different requirements relating to a combination of chemical and physical properties.

Refractories Segment

Refractory Products and Markets

Refractories Products

The Company offers a broad range of monolithic and pre-cast refractory products and related systems and services. The Company's Refractory segment net sales were \$348.4 million, \$343.4 million and \$368.8 million for the years ended December 31, 2013, 2012 and 2011, respectively.

Refractory product sales are often supported by Company-supplied proprietary application equipment and on-site technical service support. The Company's proprietary application equipment is used to apply refractory materials to the walls of steel-making furnaces and other high temperature vessels to maintain and extend their useful life. Net sales of refractory products, including those for non-ferrous applications, were \$264.0 million, \$264.1 million and \$287.4 million for the years ended December 31, 2013, 2012 and 2011. The Company's proprietary application system, such as its MINSCAN®, allow for remote-controlled application of the Company's refractory products in steel-making furnaces, as well as in steel ladles and blast furnaces. Since the steel-making industry is characterized by intense price competition, which results in a continuing emphasis on increased productivity, these application systems and the technologically advanced refractory materials developed in the Company's research laboratories have been well accepted by the Company's customers. These products allow steel makers to improve their performance through, among other things, the application of monolithic refractories to furnace linings while the furnace is at operating temperature, thereby eliminating the need for furnace cool-down periods and steel-production interruption. The result is a lower overall cost for steel produced by steel makers. We also signed an agreement with United Steel Company B.S.C. (SULB) to perform all refractory maintenance at a greenfield steel mill in Bahrain in 2012. Minteq, working with other refractory companies, is responsible for coordinating refractory maintenance of the steel furnaces and other steel production vessels. We generated sales of \$13.9 million from this contract in 2013 and we expect to generate on average \$10 million per year over the 3 year term of the contract. We are exploring the use of this business model for other operations.

The Company's technical service staff and application equipment assist customers to achieve desired productivity objectives. The Company's technicians are also able to conduct laser measurement of refractory wear, sometimes in conjunction with robotic application tools, to improve refractory performance at many customer locations. The Company believes that these services, together with its refractory product offerings, provide it with a strategic marketing advantage.

Over the past several years the Refractories segment has continued to develop, reformulate, and optimize its products and application technology to maintain its competitive advantage in the market place. Some of the products the Company has developed and optimized in the past several years include:

HOTCRETE®: High durability shotcrete products for applications at high temperatures in ferrous applications such as steel ladles, electric arc furnaces (EAF) and basic oxygen furnaces (BOF) furnaces.

FASTFIRE®: High durability castable and shotcrete products in the non-ferrous and ferrous industries with the added benefit of rapid dry-out capabilities.

OPTIFORM®: A system of products and equipment for the rapid continuous casting of refractories for applications such as steel ladle safety linings.

ENDURATEQ®: A high durability refractory shape for glass contact applications such as plungers and orifice rings.

DECTEQ™: A system for the automatic control of electrical power feeding electrodes used in electric arc steel making furnaces.

LACAM® Torpedo: A laser scanning system that measures the refractory lining thickness inside a Hot Iron (Torpedo) Ladle. The torpedo ladles transport liquid iron from a blast furnace to the steel plant.

LACAM®: A new, fourth generation Lacam® laser measurement device for use in the worldwide steel industry that is 17 times faster than the previous version. This new technology provides the fastest and most accurate laser scanning for hot surfaces available today.

Refractories Markets

The principal market for the Company's refractory products is the steel industry. Management believes that certain trends in the steel industry will provide growth opportunities for the Company. These trends include growth and quality improvements in select geographic regions (e.g., China, Middle East, Eastern Europe and India) the development of improved manufacturing processes such as thin-slab casting, the trend in North America to shift production from integrated mills to electric arc furnaces (mini-mills) and the ever-increasing need for improved productivity and longer lasting refractories.

The Company sells its refractory products in the following markets:

Steel Furnace. The Company sells gunnable monolithic refractory products and application systems to users of basic oxygen furnaces and electric arc furnaces for application on furnace walls to prolong the life of furnace linings.

Other Iron and Steel. The Company sells monolithic refractory materials and pre-cast refractory shapes for iron and steel ladles, vacuum degassers, continuous casting tundishes, blast furnaces and reheating furnaces. The Company offers a full line of materials to satisfy most continuous casting refractory applications. This full line consists of gunnable materials, refractory shapes and permanent linings.

Industrial Refractory Systems. The Company sells refractory shapes and linings to non-steel refractories consuming industries including glass, cement, aluminum and petrochemicals, power generation and other non-steel industries. The Company also produces a specialized line of carbon composites and pyrolytic graphite primarily sold under the PYROID® trademark, primarily to the aerospace and electronics industries.

Metallurgical Products and Markets

The Company produces a number of other technologically advanced products for the steel industry, including calcium metal, metallurgical wire products and a number of metal treatment specialty products. Net sales of metallurgical products were \$84.4 million, \$79.3 million and \$81.4 million for the years ended December 31, 2013, 2012 and 2011. The Company manufactures calcium metal at its Canaan, Connecticut, facility and purchases calcium in international markets. Calcium metal is used in the manufacture of the Company's PFERROCAL® solid-core calcium wire, and is also sold for use in the manufacture of batteries and magnets. We also manufacture cored wires at our Canaan, Connecticut and Hengelo, Netherlands, manufacturing sites. The Company sells metallurgical wire products and associated wire-injection equipment for use in the production of high-quality steel. These metallurgical wire products are injected into molten steel to improve castability and reduce imperfections. The steel produced is used for high-pressure pipeline and other premium-grade steel applications.

Marketing and Sales

The Company relies principally on its worldwide direct sales force to market its products. The direct sales force is augmented by technical service teams that are familiar with the industries to which the Company markets its products, and by several regional distributors. The Company's sales force works closely with the Company's technical service staff to solve technical and other issues faced by the Company's customers. The Company's technical service staff assists paper producers in ongoing evaluations of the use of PCC for paper coating and filling applications. In the Refractory segment, the Company's technical service personnel advise on the use of refractory materials, and, in many cases pursuant to service agreements, apply the refractory materials to the customers' furnaces and other vessels. Continued use of skilled technical service teams is an important component of the Company's business strategy.

The Company works closely with its customers to ensure that their requirements are satisfied, and it often trains and supports customer personnel in the use of the Company's products. The Company oversees domestic marketing

and sales activities from Bethlehem, Pennsylvania, and from regional sales offices in the eastern and western United States. The Company's international marketing and sales efforts are directed from regional centers located in Brussels, Belgium; Sao Jose Dos Campos, Brazil; and Shanghai, China. The Company believes its processed minerals are at regional locations that satisfy the stringent delivery requirements of the industries they serve. The Company also believes that its worldwide network of sales personnel and manufacturing sites facilitates the continued international expansion.

Raw Materials

The Company depends in part on having an adequate supply of raw materials for its manufacturing operations, particularly lime and carbon dioxide for the PCC product line, magnesia and alumina for its Refractory operations, and on having adequate access to ore reserves at its mining operations.

The Company uses lime in the production of PCC and is a significant purchaser of lime worldwide. Generally, the lime utilized in our business is readily available from numerous sources and we purchase lime under long-term supply contracts from unaffiliated suppliers located in close geographic proximity to the Company's PCC plants. We also produce lime at our Adams, Massachusetts facility and our Lifford, UK facility, although most of the lime produced at our Adams facility and all of the lime produced at our Lifford facility is consumed in the production of Specialty PCC at the plant. We currently supply some quantities of lime to third

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parties that are in close proximity to our Adams plant and could supply small quantities of lime to certain of our PCC satellite facilities that are in close geographic proximity to the Adams plant. Carbon dioxide is readily available in exhaust gas from the host paper mills, or other operations at our merchant facilities.

The principal raw materials used in the Company's monolithic refractory products are refractory-grade magnesia and various forms of alumina silicates. Approximately 45% percent of the Company's magnesia requirements were purchased from sources in China over the past five years. The price and availability of bulk raw materials from China are subject to fluctuations that could affect the Company's sales to its customers. In addition, the volatility of transportation costs has also affected the delivered cost of raw materials imported from China to North America and Europe. The Company has developed alternate sources of magnesia over the past few years that have reduced our reliance on China sourced magnesia. Presently, we procure the majority of our magnesia requirements from other locations, including Brazil, Turkey, United States, Netherlands, Russia and Japan. The amount sourced from China and other locations can vary from year to year depending upon price and availability from each source. The alumina we utilize in our business is readily available from numerous sources. The Company also purchases calcium metal, calcium silicide, graphite, calcium carbide and various alloys for use in the production of metallurgical wire products and uses lime and aluminum in the production of calcium metal.

Competition

The Company is continually engaged in efforts to develop new products and technologies and refine existing products and technologies in order to remain competitive and to position itself as a market leader.

With respect to its PCC products, the Company competes for sales to the paper industry with other minerals, such as GCC and kaolin, based in large part upon technological know-how, patents and processes that allow the Company to deliver PCC that it believes imparts gloss, brightness, opacity and other properties to paper on an economical basis. The Company is the leading manufacturer and supplier of PCC to the paper industry.

The Company competes in sales of its limestone and talc based primarily upon quality, price, and geographic location.

With respect to the Company's refractory products, competitive conditions vary by geographic region. Competition is based upon the performance characteristics of the product (including strength, consistency and ease of application), price, and the availability of technical support.

Research and Development

Many of the Company's product lines are technologically advanced. Our expertise in inorganic chemistry, crystallography and structural analysis, fine particle technology and other aspects of materials science apply to and support all of our product lines. The Company's business strategy for growth in sales and profitability depends, to a large extent, on the continued success of its research and development activities. Among the significant achievements of the Company's research and development efforts have been: the satellite PCC plant concept; PCC crystal morphologies for paper coating; AT[®] PCC for wood-containing papers; FulFill[®] high filler technology systems; the development of FASTFIRE[®] and OPTIFORM[®] shotcrete refractory products; LACAM[®] laser-based refractory measurement systems; the MINSCAN[®] and HOTCRETE[®] application systems; and EMforce[®], Optibloc[®] and Titanium Dioxide (TiO₂) extenders for the Processed Minerals and Specialty PCC product lines.

Under the FulFill[®] platform of products, the Company continues to develop its filler-fiber composite material. The FulFill[®] brand High Filler Technology is a portfolio of high-filler technologies that offers papermakers a variety of efficient, flexible solutions that decreases dependency on natural fiber and reduces costs. The FulFill[®] E-325 series allows papermakers to increase filler loading levels of precipitated calcium carbonate (PCC), which replaces higher

cost pulp, and increases PCC usage. Depending on paper grades, this PCC volume increase may range from 15 to 30 percent. The Company continues to progress in the commercialization of FulFill® E-325. We have signed agreements with fifteen paper mills and are actively engaged with additional paper mill sites for further FulFill® deployment. We continue product development with other products within this platform.

The Company will also continue to reformulate its refractory materials to be more competitive, and will also continue development of unique calcium carbonates for use in novel biopolymers.

For the years ended December 31, 2013, 2012 and 2011, the Company spent approximately \$20.1 million, \$20.2 million and \$19.3 million, respectively, on research and development. The Company's research and development spending for 2013, 2012 and 2011 was approximately 2.0%, 2.0% and 1.9% of net sales, respectively.

The Company maintains its primary research facilities in Bethlehem and Easton, Pennsylvania. It also has research and development facilities in China, Germany, Ireland, Japan and Turkey. Approximately 71 employees worldwide are engaged in research and development. In addition, the Company has access to some of the world's most advanced papermaking and paper coating pilot facilities.

Patents and Trademarks

The Company owns or has the right to use approximately 320 patents and approximately 878 trademarks related to its business. Our patents expire between 2014 and 2036. Our trademarks continue indefinitely. The Company believes that its rights under its existing patents, patent applications and trademarks are of value to its operations, but no one patent, application or trademark is material to the conduct of the Company's business as a whole.

Insurance

The Company maintains liability and property insurance and insurance for business interruption in the event of damage to its production facilities and certain other insurance covering risks associated with its business. The Company believes such insurance is adequate for the operation of its business. There is no assurance that in the future the Company will be able to maintain the coverage currently in place or that the premiums will not increase substantially.

Employees

At December 31, 2013, the Company employed 1,978 persons, of whom 1,010 were employed outside of the United States.

Environmental, Health and Safety Matters

The Company's operations are subject to federal, state, local and foreign laws and regulations relating to the environment and health and safety. Certain of the Company's operations involve and have involved the use and release of substances that have been and are classified as toxic or hazardous within the meaning of these laws and regulations. Environmental operating permits are, or may be, required for certain of the Company's operations and such permits are subject to modification, renewal and revocation. The Company regularly monitors and reviews its operations, procedures and policies for compliance with these laws and regulations. The Company believes its operations are in substantial compliance with these laws and regulations and that there are no violations that would have a material effect on the Company. Despite these compliance efforts, some risk of environmental and other damage is inherent in the Company's operations, as it is with other companies engaged in similar businesses, and there can be no assurance that material violations will not occur in the future. The cost of compliance with these laws and regulations is not expected to have a material adverse effect on the Company.

Laws and regulations are subject to change. See Item 1A, Risk Factors, for information regarding the possible effects that compliance with new environmental laws and regulations, including those relating to climate change, may have on our businesses and operating results.

Under the terms of certain agreements entered into in connection with the Company's initial public offering in 1992, Pfizer Inc ("Pfizer") agreed to indemnify the Company against certain liabilities being retained by Pfizer and its subsidiaries including, but not limited to, pending lawsuits and claims, and any lawsuits or claims brought at any time in the future alleging damages or injury from the use, handling of or exposure to any product sold by Pfizer's specialty minerals business prior to the closing of the initial public offering.

Available Information

The Company maintains an internet website located at <http://www.mineralstech.com>. Its reports on Forms 10-K, 10-Q and 8-K, and amendments to those reports, as well as its Proxy Statement and filings under Section 16 of the Securities Exchange Act of 1934 are available free of charge through the Investor Relations page of its website, as soon as reasonably practicable after they are filed with the Securities and Exchange Commission ("SEC"). Investors

may access these reports through the Company's website by navigating to "Investor Relations" and then to "SEC Filings."

Financial information concerning our business segments and the geographical areas in which we operate appears in the Notes to the Consolidated Financial Statements. Information related to our executive officers is included in Item 10, "Directors, Executive Officers and Corporate Governance."

Item 1A. Risk Factors

Our business faces significant risks. Set forth below are all risks that we believe are material at this time. Our business, financial condition and results of operations could be materially adversely affected by any of these risks. These risks should be read in conjunction with the other information in this Annual Report on Form 10-K.

Worldwide general economic, business, and industry conditions have had, and may continue to have, an adverse effect on the Company's results.

The global economic instability of the past few years has caused, among other things, declining consumer and business confidence, volatile raw material prices, instability in credit markets, high unemployment, fluctuating interest and exchange rates,

and other challenges. The Company's business and operating results have been and may continue to be adversely affected by these global economic conditions. The Company's customers and potential customers may experience deterioration of their businesses, cash flow shortages, and difficulty obtaining financing. As discussed below, the industries we serve, primarily paper, steel, construction and automotive, have in the past been adversely affected by the uncertain global economic climate due to the cyclical nature of their businesses. As a result, existing or potential customers may reduce or delay their growth and investments and their plans to purchase products, and may not be able to fulfill their obligations in a timely fashion. Further, suppliers could experience similar conditions, which could affect their ability to fulfill their obligations to the Company. Adversity within capital markets may also impact the Company's results of operations by negatively affecting the amount of expense the Company records for its pension and other postretirement benefit plans. Actuarial valuations used to calculate income or expense for the plans reflect assumptions about financial market and other economic conditions – the most significant of which are the discount rate and the expected long-term rate of return on plan assets. Such actuarial valuations may change based on changes in key economic indicators. Global economic markets remain uncertain, and there can be no assurance that market conditions will improve in the near future. Future weakness in the global economy could materially and adversely affect our business and operating results.

The Company's operations are subject to the cyclical nature of its customers' businesses and we may not be able to mitigate that risk.

The majority of the Company's sales are to customers in industries that have historically been cyclical: paper, steel, construction, and automotive. These industries have been particularly adversely affected by the uncertain global economic climate. Our Refractories segment primarily serves the steel industry. In 2013, North American and European steel production was approximately 10% below 2008 levels due to reduced demand and several steel mill closures. In the paper industry, which is served by our Paper PCC product line, production levels for uncoated freesheet within North America and Europe, our two largest markets remain approximately 17% below 2008 levels.

The reduced demand for paper industry products has also caused the paper industry to experience a number of recent bankruptcies and paper mill closures, including among our customers. In addition, our Processed Minerals and Specialty PCC product lines are affected by the domestic building and construction markets and the automotive market. Housing starts in 2013 averaged approximately 928 thousand units. Housing starts were at a peak rate of 2.1 million units in 2005. Demand for our products is subject to these trends. In addition, these trends could cause our customers to face liquidity issues or bankruptcy, which could deteriorate the aging of our accounts receivable, increase our bad debt exposure and possibly trigger impairment of assets or realignment of our businesses. The Company has taken steps to reduce its exposure to variations in its customers' businesses, including by diversifying its portfolio of products and services; through geographic expansion, and by structuring most of its long-term satellite PCC contracts to provide a degree of protection against declines in the quantity of product purchased, since the price per ton of PCC generally rises as the number of tons purchased declines. In addition, many of the Company's product lines lower its customers' costs of production or increase their productivity, which should encourage them to use its products. However, there can be no assurance that these efforts will mitigate the risks of our dependence on these industries. Continued weakness in the industries we serve has had, and may in the future have, an adverse effect on sales of our products and our results of operations. A continued or renewed economic downturn in one or more of the industries or geographic regions that the Company serves, or in the worldwide economy, could cause actual results of operations to differ materially from historical and expected results.

The Company's results could be adversely affected if it is unable to effectively achieve and implement its growth initiatives.

Sales and income growth of the Company depends upon a number of uncertain events, including the outcome of the Company's strategies of increasing its penetration into geographic markets such as the BRIC (Brazil, Russia, India, China) countries and other Asian and Eastern European countries; increasing its penetration into product markets such as the market for papercoating pigments and the market for groundwood paper pigments; increasing sales to existing PCC customers by increasing the amount of PCC used per ton of paper produced; developing, introducing and selling new products such as the FulFill® family of products for the paper industry. Difficulties, delays or

failure of any of these strategies could affect the future growth rate of the Company. Our strategy also anticipates growth through future acquisitions. However, our ability to identify and consummate any future acquisitions on terms that are favorable to us may be limited by the number of attractive acquisition targets, internal demands on our resources and our ability to obtain financing. Our success in integrating newly acquired businesses will depend upon our ability to retain key personnel, avoid diversion of management's attention from operational matters, and integrate general and administrative services. In addition, future acquisitions could result in the incurrence of additional debt, costs and contingent liabilities. Integration of acquired operations may take longer, or be more costly or disruptive to our business, than originally anticipated, and it is also possible that expected synergies from future acquisitions may not materialize. We also may incur costs and divert management attention with regard to potential acquisitions that are never consummated.

The Company announced on February 14, 2014 that it has made a proposal to acquire all outstanding shares of AMCOL International Corporation, a company publicly traded on the New York Stock Exchange, for \$42 per share in cash. While the Company is confident in its ability to finance the transaction, there can be no assurance financing will be available. If the proposal is accepted, the transaction would be expected to close in the first half of 2014 and would be conditioned upon customary closing conditions. This transaction, if consummated, would be subject to all of the risks described above.

The Company's sales of PCC could be adversely affected by our failure to renew or extend long term sales contracts for our satellite operations.

The Company's sales of PCC to paper customers are typically pursuant to long-term evergreen agreements, initially ten years in length, with paper mills where the Company operates satellite PCC plants. Sales pursuant to these contracts represent a significant portion of our worldwide Paper PCC sales, which were \$480.0 million in 2013, or approximately 47% of the Company's net sales. The terms of many of these agreements have been extended or renewed in the past, often in connection with an expansion of the satellite plant. However, failure of a number of the Company's customers to renew or extend existing agreements on terms as favorable to the Company as those currently in effect, or at all, could have a substantial adverse effect on the Company's results of operations, and could also result in impairment of the assets associated with the PCC plant.

The Company's sales could be adversely affected by consolidation in customer industries, principally paper and steel. Several consolidations in the paper industry have taken place in recent years and such consolidation could continue in the future. These consolidations could result in partial or total closure of some paper mills where the Company operates PCC satellites. Such closures would reduce the Company's sales of PCC, except to the extent that they resulted in shifting paper production and associated purchases of PCC to another location served by the Company. Similarly, consolidations have occurred in the steel industry. Such consolidations in the two major industries we serve concentrate purchasing power in the hands of a smaller number of papermakers and steel manufacturers, enabling them to increase pressure on suppliers, such as the Company. This increased pressure could have an adverse effect on the Company's results of operations in the future.

The Company is subject to stringent regulation in the areas of environmental, health and safety, and tax, and may incur unanticipated costs or liabilities arising out of claims for various legal, environmental and tax matters or product stewardship issues.

The Company's operations are subject to international, federal, state and local governmental environmental, health and safety, tax and other laws and regulations. We have expended, and may be required to expend in the future, substantial funds for compliance with such laws and regulations. In addition, future events, such as changes to or modifications of interpretations of existing laws and regulations, or enforcement policies, or further investigation or evaluation of the potential environmental impacts of operations or health hazards of certain products, may give rise to additional compliance and other costs that could have a material adverse effect on the Company. State, national, and international governments and agencies have been evaluating climate-related legislation and regulation that would restrict emissions of greenhouse gases in areas in which we conduct business, and some such legislation and regulation have already been enacted or adopted. Enactment of climate-related legislation or adoption of regulation that restrict emissions of greenhouse gases in areas in which we conduct business could have an adverse effect on our operations or demand for our products. Our manufacturing processes, particularly the manufacturing process for PCC, use a significant amount of energy and, should energy prices increase as a result of such legislation or regulation, we may not be able to pass these increased costs on to purchasers of our products. We cannot predict if or when currently proposed or additional laws and regulations regarding climate change or other environmental or health and safety concerns will be enacted or adopted. Moreover, changes in tax regulation and international tax treaties could reduce the financial performance of our foreign operations.

The Company is currently a party in various litigation matters and tax and environmental proceedings and faces risks arising from various unasserted litigation matters, including, but not limited to, product liability, patent infringement, antitrust claims, and claims for third party property damage or personal injury stemming from alleged environmental torts. Failure to appropriately manage safety, human health, product liability and environmental risks associated with the Company's products and production processes could adversely impact the Company's employees and other stakeholders, the Company's reputation and its results of operations. Public perception of the risks associated with the Company's products and production processes could impact product acceptance and influence the regulatory environment in which the Company operates. While the Company has procedures and controls to manage these risks, carries liability insurance, which it believes to be appropriate to its businesses, and has provided reserves for current matters, which it believes to be adequate, an unanticipated liability, arising out of a current matter or proceeding or from the other risks described above, could have a material adverse effect on the Company's financial condition or results of operations.

Delays or failures in new product development could adversely affect the Company's operations.

The Company's future business success will depend in part upon its ability to maintain and enhance its technological capabilities, to respond to changing customer needs, and to successfully anticipate or respond to technological changes on a cost-effective and timely basis. The Company is engaged in a continuous effort to develop new products and processes in all of its product lines. Difficulties, delays or failures in the development, testing, production, marketing or sale of such new products could cause actual results of operations to differ materially from our expected results.

The Company's ability to compete is dependent upon its ability to defend its intellectual property against inappropriate disclosure and infringement.

The Company's ability to compete is based in part upon proprietary knowledge, both patented and unpatented. The Company's ability to achieve anticipated results depends in part on its ability to defend its intellectual property against inappropriate disclosure as well as against infringement. In addition, development by the Company's competitors of new products or technologies that are more effective or less expensive than those the Company offers could have a material adverse effect on the Company's financial condition or results of operations.

The Company's operations could be impacted by the increased risks of doing business abroad.

The Company does business in many areas internationally. Approximately 45% of our sales in 2013 were derived from outside the United States and we have significant production facilities which are located outside of the United States. We have in recent years expanded our operations in emerging markets, and we plan to continue to do so in the future, particularly in China, India, Brazil, and Eastern Europe. Some of our operations are located in areas that have experienced political or economic instability, including Indonesia, Brazil, Thailand, China and South Africa.

As the Company expands its operations overseas, it faces increased risks of doing business abroad, including inflation, fluctuation in interest rates, changes in applicable laws and regulatory requirements, export and import restrictions, tariffs, nationalization, expropriation, limits on repatriation of funds, civil unrest, terrorism, unstable governments and legal systems, and other factors. Adverse developments in any of the areas in which we do business could cause actual results to differ materially from historical and expected results. In addition, a significant portion of our raw material purchases and sales outside the United States are denominated in foreign currencies, and liabilities for non-U.S. operating expenses and income taxes are denominated in local currencies. Accordingly, reported sales, net earnings, cash flows and fair values have been and, in the future, will be affected by changes in foreign currency exchange rates. Our overall success as a global business depends, in part, upon our ability to succeed in differing legal, regulatory, economic, social and political conditions. We cannot assure you that we will implement policies and strategies that will be effective in each location where we do business.

The Company's operations are dependent on the availability of raw materials and access to ore reserves at its mining operations. Increases in costs of raw materials or energy could adversely affect our financial results.

The Company depends in part on having an adequate supply of raw materials for its manufacturing operations, particularly lime and carbon dioxide for the PCC product line, and magnesia and alumina for its Refractory operations. Purchase prices and availability of these critical raw materials are subject to volatility. At any given time, we may be unable to obtain an adequate supply of these critical raw materials on a timely basis, on price and other terms, or at all. While most such raw materials are readily available, the Company purchases approximately forty-five percent of its magnesia requirements from sources in China. The majority of magnesia requirements were purchased from other countries. The price and availability of magnesia have fluctuated in the past and they may fluctuate in the future. Price increases for certain other of our raw materials, as well as increases in energy prices, have also affected our business. Energy costs typically have the most significant impact in the production of our Processed Minerals and Specialty PCC products, but also affect the cost of raw materials purchased in our Paper PCC product line and Refractories Segment. The contracts pursuant to which we construct and operate our satellite PCC plants generally adjust pricing to reflect the pass-through of increases in costs resulting from inflation, including energy. However, there is a time lag before such price adjustments can be implemented. The Company and its customers, especially customers for the Refractories Segment, Processed Minerals and Specialty PCC product lines will typically negotiate reasonable price adjustments in order to recover these escalating costs, but there can be no assurance that we will be able to recover increasing costs through such negotiations. In 2013, increased raw materials costs affected our Specialty Minerals segment by \$4.7 million. These increased raw material costs were partially offset by price increases.

The Company also depends on having adequate access to ore reserves of appropriate quality at its mining operations. There are numerous uncertainties inherent in estimating ore reserves including subjective judgments and determinations that are based on available geological, technical, contract and economic information.

We cannot predict whether, and how much, prices for our key raw materials will increase in the future. Changes in the costs or availability of such raw materials, to the extent we cannot recover them in price increases to our customers, could adversely affect the Company's results of operations.

The Company operates in very competitive industries, which could adversely affect our profitability.

The Company has many competitors. Some of our principal competitors have greater financial and other resources than we have. Accordingly, these competitors may be better able to withstand changes in conditions within the industries in which we operate and may have significantly greater operating and financial flexibility than we do. As a result of the competitive environment in the markets in which we operate, we currently face and will continue to face pressure on the sales prices of our products from competitors, which could reduce profit margins.

Production facilities are subject to operating risks and capacity limitations that may adversely affect the Company's financial condition or results of operations.

The Company is dependent on the continued operation of its production facilities. Production facilities are subject to hazards associated with the manufacturing, handling, storage, and transportation of chemical materials and products, including pipeline leaks and ruptures, explosions, fires, inclement weather and natural disasters, mechanical failure, unscheduled downtime, labor difficulties, transportation interruptions, and environmental risks. We maintain property, business interruption and casualty insurance but such insurance may not cover all risks associated with the hazards of our business and is subject to limitations, including deductibles and maximum liabilities covered. We may incur losses beyond the limits, or outside the coverage, of our insurance policies. Further, from time to time, we may experience capacity limitations in our manufacturing operations. In addition, if we are unable to effectively forecast our customers' demand, it could affect our ability to successfully manage operating capacity limitations. These hazards, limitations, disruptions in supply and capacity constraints could adversely affect financial results.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

Set forth below is the location of, and the main customer served by, each of the Company's satellite PCC plants in operation or under construction as of December 31, 2013. Generally, the land on which each satellite PCC plant is located is leased at a nominal amount by the Company from the host paper mill pursuant to a lease, the term of which generally runs concurrently with the term of the PCC production and sale agreement between the Company and the host paper mill.

<u>Location</u>	<u>Principal Customer</u>
United States	
Alabama, Courtland	International Paper Company
Alabama, Jackson	Boise Inc.
Alabama, Selma	International Paper Company
Arkansas, Ashdown	Domtar Inc.
Florida, Pensacola	Georgia-Pacific Corporation (Koch Industries)
Kentucky, Wickliffe	NewPage Corporation
Louisiana, Port Hudson	Georgia-Pacific Corporation (Koch Industries)
Maine, Jay	Verso Paper Holdings LLC
Maine, Madison	Madison Paper Industries
Michigan, Quinnesec	Verso Paper Holdings LLC
Minnesota, Cloquet	Sappi Ltd.
Minnesota, International Falls	Boise Inc.
New York, Ticonderoga	International Paper Company
Ohio, Chillicothe	P.H. Glatfelter Co.
Ohio, West Carrollton	Appleton Papers Inc.
South Carolina, Eastover	International Paper Company
Washington, Camas	Georgia-Pacific Corporation (Koch Industries)
Washington, Longview	North Pacific Paper Corporation
Washington, Wallula	Boise Inc.
Wisconsin, Kimberly	Appleton Coated
Wisconsin, Park Falls	Flambeau River Papers LLC
Wisconsin, Superior	New Page Corporation
Wisconsin, Wisconsin Rapids	New Page Corporation

<u>Location</u>	<u>Principal Customer</u>
International	
Brazil, Guaiba	Aracruz Celulose S.A.
Brazil, Jacarei	Ahlstrom-VCP Industria de Papeis Especialis Ltda.
Brazil, Luiz Antonio	International Paper do Brasil Ltda.
Brazil, Mucuri	Suzano Papel e Celulose S. A.
Brazil, Suzano	Suzano Papel e Celulose S. A.
Canada, St. Jerome, Quebec	Cascades Fine Papers Group Inc.
Canada, Windsor, Quebec	Domtar Inc.
China, Dagang ¹	Gold East Paper (Jiangsu) Company Ltd.
China, Zhenjiang ¹	Gold East Paper (Jiangsu) Company Ltd.

China, Suzhou ¹	Gold HuaSheng Paper Company Ltd.
China, Henan ²	Henan Jianghe Paper Co., Ltd.
China, Guangxi ²	Nanning Jindaxing Paper Industry Company Ltd
China, Shandong ²	Shandong Sun Paper Industry Joint Stock Company Ltd
Finland, Äänekoski	M-real Corporation
Finland, Tervakoski	Trierenberg Holding
France, Alizay	Double A Paper Company Ltd.
France, Docelles	UPM Corporation
France, Saillat Sur Vienne	International Paper Company
Germany, Schongau	UPM Corporation
India, Ballarshah ¹	Ballarpur Industries Ltd.
India, Dandeli	West Coast Paper Mill Ltd.
India, Gaganapur ¹	Ballarpur Industries Ltd.
India, Saila Khurd	ABC Paper Ltd.
India, Rayagada ¹	JK Paper
Indonesia, Perawang ¹	PT Indah Kiat Pulp and Paper Corporation
Japan, Shiraoi ¹	Nippon Paper Group Inc.
Malaysia, Sipitang	Ballarpur Industries Ltd.
Mexico, Anahuac	Copamex, S.A. de C.V.
Poland, Kwidzyn	International Paper – Kwidzyn, S.A
Portugal, Figueira da Foz ¹	Soporcel – Sociedade Portuguesa de Papel, S.A.
Slovakia, Ruzomberok	Mondi Business Paper SCP
South Africa, Merebank ¹	Mondi Paper Company Ltd.
Thailand, Namphong	Phoenix Pulp & Paper Public Co. Ltd.
Thailand, Tha Toom ¹	Double A Paper Company Ltd.
Thailand, Tha Toom 2 ¹	Double A Paper Company Ltd.

¹ These plants are owned through joint ventures.

² These plants are under construction.

The Company also owned and operated at December 31, 2013, 7 plants engaged in the mining, processing and/or production of lime, limestone, precipitated calcium carbonate and talc, as well as owned or leased and operated 17 manufacturing facilities worldwide within the Refractories segment. The Company's corporate headquarters, sales offices, research laboratories, plants and other facilities are owned by the Company except as otherwise noted. Set forth below is certain information relating to the Company's plants and office and research facilities:

<u>Location</u>	<u>Facility</u>	<u>Product Line</u>
United States		
Arizona, Pima County	Plant; Quarry ¹	Limestone
California, Lucerne Valley	Plant; Quarry	Limestone
Connecticut, Canaan	Plant; Quarry	Limestone, Metallurgical Wire/Calcium
Indiana, Portage	Plant	Refractories/Shapes
Louisiana, Baton Rouge	Plant	Monolithic Refractories
Massachusetts, Adams	Plant; Quarry	Limestone, Lime, PCC
Montana, Dillon	Plant; Quarry	Talc
New York, New York	Headquarters ²	All Company Products
Ohio, Bryan	Plant	Monolithic Refractories
Ohio, Dover	Plant	Monolithic Refractories/Shapes
		All Company Products

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Pennsylvania, Bethlehem	Administrative Office; Research laboratories; Sales Offices	
Pennsylvania, Easton	Administrative Office; Research laboratories; Plant; Sales Offices	All Company Products
Pennsylvania, Slippery Rock	Plant; Sales Offices	Monolithic Refractories/Shapes
Texas, Bay City	Plant	Talc
<u>Location</u>	<u>Facility</u>	<u>Product Line</u>
International		
Australia, Carlingford	Sales Office ²	Monolithic Refractories
Belgium, Brussels	Sales Office ² /Administrative Office	Monolithic Refractories/PCC
Brazil, Sao Jose dos Campos	Sales Office ² /Administrative Office	PCC
Canada, Pt. Claire	Administrative Office	PCC/Monolithic Refractories
China, Shanghai	Administrative Office/Sales Office	PCC/Monolithic Refractories
China, Suzhou	Plant/Sales Office/Research laboratories	PCC/Monolithic Refractories
Germany, Duisburg	Plant/Sales Office/Research laboratories	Laser Scanning Instrumentation/ Probes/Monolithic Refractories

<u>Location</u>	<u>Facility</u>	<u>Product Line</u>
Holland, Hengelo	Plant/Sales Office	Metallurgical Wire
India, Mumbai	Sales Office ² /Administrative Office	PCC/Monolithic Refractories/ Metallurgical Wire
Ireland, Cork	Plant; Administrative Office ² / Research laboratories	Monolithic Refractories
Italy, Brescia	Sales Office	Monolithic Refractories/Shapes
Italy, Nave	Plant	Monolithic Refractories/Shapes
Japan, Gamagori	Plant/Research laboratories	Monolithic Refractories/Shapes, Calcium
Japan, Tokyo	Sales Office	Monolithic Refractories
Singapore	Sales Office ² /Administrative Office	PCC
Spain, Santander	Sales Office ² /Administrative Office	Monolithic Refractories
South Africa, Pietermaritzburg	Plant	Monolithic Refractories
South Africa, Johannesburg	Sales Office/Administrative Office ²	Monolithic Refractories
Turkey, Gebze a	Plant/Research Laboratories	Monolithic Refractories/Shapes/ Application Equipment
Turkey, Istanbul	Sales Office/Administrative Office	Monolithic Refractories
Turkey, Kutahya	Plant	Monolithic Refractories/Shapes
United Kingdom, Lifford	Plant	PCC, Lime
United Kingdom, Rotherham	Plant/Sales Office	Monolithic Refractories/Shapes

¹ This plant and quarry is leased to another company.

Leased by the Company. The facilities in Cork, Ireland, are operated pursuant to a 99-year lease, the term of which commenced in 1963. The Company's headquarters in New York, New York, are held under a lease which expires in 2021.

The following sets forth, for each of the quarries or mines we own or operate, as set forth above, our current estimate as to the amount of reserves such quarry or mine holds, based on the most recent mine plan, and its usage rate in 2013.

Millions of tons

<u>Location</u>	<u>Reserves</u>	<u>2013 Usage</u>
Arizona, Pima County	8.73	0.17
California, Lucerne Valley	47.07	0.87
Connecticut, Canaan	20.41	0.46
Massachusetts, Adams	25.59	0.58
Montana, Dillon	3.76	0.18

The Company believes that its facilities, which are of varying ages and are of different construction types, have been satisfactorily maintained, are in good condition, are suitable for the Company's operations and generally provide sufficient capacity to meet the Company's production requirements. Based on past loss experience, the Company believes it is adequately insured with respect to these assets and for liabilities likely to arise from its operations.

Item 3. Legal Proceedings

Certain of the Company's subsidiaries are among numerous defendants in a number of cases seeking damages for exposure to silica or to asbestos containing materials. The Company currently has 72 pending silica cases and 15 pending asbestos cases. To date, 1,394 silica cases and 34 asbestos cases have been dismissed. Two new asbestos cases were filed in the fourth quarter of 2013. Most of these claims do not provide adequate information to assess their merits, the likelihood that the Company will be found liable, or the magnitude of such liability, if any.

Additional claims of this nature may be made against the Company or its subsidiaries. At this time management anticipates that the amount of the Company's liability, if any, and the cost of defending such claims, will not have a material effect on its financial position or results of operations.

The Company has not settled any silica or asbestos lawsuits to date. We are unable to state an amount or range of amounts claimed in any of the lawsuits because state court pleading practices do not require identifying the amount of the claimed damage. The aggregate cost to the Company for the legal defense of these cases since inception continues to be insignificant. The majority of the costs of defense are reimbursed by Pfizer Inc. pursuant to the terms of certain agreements entered into in connection with the Company's initial public offering in 1992. Of the 15 pending asbestos cases, all allege liability based on products sold largely or entirely prior to the initial public offering, and for which the Company is therefore entitled to indemnification pursuant to such agreements. Our experience has been that the Company is not liable to plaintiffs in any of these lawsuits and the Company does not expect to pay any settlements or jury verdicts in these lawsuits.

Environmental Matters

On April 9, 2003, the Connecticut Department of Environmental Protection issued an administrative consent order relating to our Canaan, Connecticut, plant where both our Refractories segment and Specialty Minerals segment have operations. We agreed to the order, which includes provisions requiring investigation and remediation of contamination associated with historic use of polychlorinated biphenyls ("PCBs") and mercury at a portion of the site. We have completed the required investigations and submitted several reports characterizing the contamination. We are now conducting a site-specific risk assessment required by the regulators.

We believe that the most likely form of overall site remediation will be to leave the existing contamination in place (with some limited soil removal), encapsulate it, and monitor the effectiveness of the encapsulation. We anticipate that a substantial portion of the remediation cost will be borne by the United States based on its involvement at the site from 1942 – 1964, as historic documentation indicates that PCBs and mercury were first used at the facility at a time of U.S. government ownership for production of materials needed by the military. Though the cost of the likely remediation remains uncertain pending completion of the phased remediation decision process, we have estimated that the Company's share of the cost of the encapsulation and limited soil removal described above would approximate \$0.4 million, which has been accrued as of December 31, 2013.

The Company is evaluating options for upgrading the wastewater treatment facilities at its Adams, Massachusetts plant. This work has been undertaken pursuant to an administrative Consent Order originally issued by the Massachusetts Department of Environmental Protection ("DEP") on June 18, 2002. This order was amended on June 1, 2009 and on June 2, 2010. The amended Order includes the investigation by January 1, 2022 of options for ensuring that the facility's wastewater treatment ponds will not result in unpermitted discharge to groundwater.

Additional requirements of the amendment include the submittal by July 1, 2022 of a plan for closure of a historic lime solids disposal area. Preliminary engineering reviews completed in 2005 indicate that the estimated cost of wastewater treatment upgrades to operate this facility beyond 2024 may be between \$6 million and \$8 million. The Company estimates that the remaining remediation costs would approximate \$0.4 million, which has been accrued as of December 31, 2013.

The Company and its subsidiaries are not party to any other material pending legal proceedings, other than routine litigation incidental to their businesses.

Item 4. Mine Safety Disclosures

The information concerning mine safety violations or other regulatory matters required by Section 1503(a) of the Dodd-Frank Wall Street Reform and Consumer Protection Act and Item 104 of Regulation S-K is included in Exhibit 95 to this Annual Report on Form 10-K.

PART II

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

The Company's common stock is traded on the New York Stock Exchange under the symbol "MTX."

Information on market prices and dividends is set forth below. On December 11, 2012, the Company effected a two-for-one stock split in the form of a stock dividend. Accordingly, all share and per share data presented reflects the effect of the stock split. See Note 1 to the consolidated financial statements "Summary of Significant Accounting Policies," for additional information.

<u>2013 Quarters</u>	First	Second	Third	Fourth
Market Price Range Per Share of Common Stock				
High	\$43.04	\$43.12	\$49.03	\$60.40
Low	39.54	38.43	42.53	49.28
Close	41.51	41.34	48.95	60.07
Dividends paid per common share	\$0.05	\$0.05	\$0.05	\$0.05

2012 Quarters

	First	Second	Third	Fourth
Market Price Range Per Share of Common Stock				
High	\$33.96	\$33.60	\$36.99	\$39.92
Low	28.78	30.81	30.50	34.25
Close	32.70	31.89	35.46	39.92
Dividends paid per common share	\$0.025	\$0.025	\$0.025	\$0.05

Equity Compensation Plan Information

Plan Category	Number of securities to be issued upon exercise of outstanding options	Weighted average exercise price of outstanding options	Number of securities remaining available for future issuance
Equity compensation plans approved by security holders ¹	1,131,415	\$ 32.42	1,144,989
Total	1,131,415	\$ 32.42	1,144,989

¹ The Company's only equity compensation plan has been approved by the Company's stockholders.

Issuer Purchases of Equity Securities

Period	Total Number of Shares Purchased	Average Price Paid Per Share	Total Number of Shares Purchased as Part of the Publicly Announced Program	Dollar Value of Shares That May Yet be Purchased Under the Program
September 30 – October 27	110,700	\$ 52.06	110,700	144,540,946
October 28 – November 24	35,400	\$ 56.55	35,400	142,539,032
November 25 - December 31	--	\$ --	--	142,539,032
Total	146,100	\$ 53.15		

In 2011, the Company's Board of Directors authorized the Company's management to repurchase, at its discretion, up to \$75 million of shares over a two-year period. The \$75 million repurchase program was completed on October 1, 2013. The Company repurchased 1,646,097 shares at an average price of approximately \$45.54 per share under this program.

On September 19, 2013, the Company's Board of Directors authorized the Company's management to repurchase, at its discretion, up to \$150 million of the Company's shares over a two-year period commencing upon completion of the repurchase program authorized in 2011. As of December 31, 2013, 139,900 shares have been repurchased under this program for \$7.5 million, or an average price of approximately \$53.33 per share.

On January 22, 2014, the Company's Board of Directors declared a regular quarterly dividend on its common stock of \$0.05 per share. No dividend will be payable unless declared by the Board and unless funds are legally available for

payment thereof.

On February 10, 2014, the last reported sales price on the NYSE was \$51.32 per share. As of February 10, 2014, there were approximately 169 holders of record of the common stock.

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The graph below compares Minerals Technologies Inc.'s cumulative 1-year total shareholder return on common stock with the cumulative total returns of the S&P 500 index, the Dow Jones US Industrials index, the S&P Midcap 400 index, the Dow Jones US Basic Materials index, and the S&P MidCap 400 Materials Sector. The graph tracks the performance of a \$100 investment in our common stock and in each index (with the reinvestment of all dividends) from 12/31/2012 to 12/31/2013.

	12/12	12/13
Minerals Technologies Inc.	100.00	151.13
S&P 500	100.00	132.39
S&P Midcap 400	100.00	133.50
Dow Jones US Industrials	100.00	140.61
Dow Jones US Basic Materials	100.00	120.38
S&P MidCap 400 Materials Sector	100.00	125.10

The graph below compares Minerals Technologies Inc.'s cumulative 2-year total shareholder return on common stock with the cumulative total returns of the S&P 500 index, the Dow Jones US Industrials index, the S&P Midcap 400 index, the Dow Jones US Basic Materials index, and the S&P MidCap 400 Materials Sector. The graph tracks the performance of a \$100 investment in our common stock and in each index (with the reinvestment of all dividends) from 12/31/2011 to 12/31/2013.

	12/11	12/12	12/13
Minerals Technologies Inc.	100.00	141.93	214.50
S&P 500	100.00	116.00	153.58
S&P Midcap 400	100.00	117.88	157.37
Dow Jones US Industrials	100.00	117.87	165.74
Dow Jones US Basic Materials			