

KRONOS INTERNATIONAL INC
Form 10-K
March 07, 2011

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

FORM 10-K

X Annual Report Pursuant to Section 13 or 15(d) of the Securities and Exchange Act of 1934:
For the fiscal year ended December 31, 2010
Commission file number 333-100047

KRONOS INTERNATIONAL, INC
(Exact name of Registrant as specified in its charter)

DELAWARE
(State or other jurisdiction of
incorporation or organization)

22-2949593
(IRS Employer Identification No.)

5430 LBJ Freeway, Suite 1700
Dallas, Texas 75240-2697
(Address of principal executive offices)

Registrant's telephone number, including area code: (972) 233-1700
No securities are registered pursuant to Section 12(b) of the Act.

No securities are registered pursuant to Section 12(g) of the Act.

Indicate by check mark:

If the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No X

If the Registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No X

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 and (2) has been subject to such filing requirements for the past 90 days. Yes X No

Whether the registrant has submitted electronically and posted on its corporate Website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).* Yes _ No

* The registrant has not yet been phased into the interactive data requirements.

Whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer or a smaller reporting company (as defined in Rule 12b-2 of the Act). Large accelerated filer Accelerated filer Non-accelerated filer X
Smaller reporting company

Whether the Registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No X

No common stock was held by nonaffiliates of the Registrant as of June 30, 2009 (the last business day of the Registrant's most recently-completed second fiscal quarter).

As of February 28, 2011, 2,968 shares of the Registrant's common stock were outstanding.

The Registrant is a wholly-owned subsidiary of Kronos Worldwide, Inc. (File No. 1-31763) and meets the conditions set forth in General Instructions I(1) (a) and (b) and is therefore filing this Form 10-K with the reduced disclosure format.

Documents incorporated by reference

None.

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Forward-Looking Information

This Annual Report on Form 10-K contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended. Statements in this Annual Report that are not historical facts are forward-looking in nature and represent management's beliefs and assumptions based on currently available information. In some cases, you can identify forward-looking statements by the use of words such as "believes," "intends," "may," "should," "could," "anticipates," "expects" or comparable terminology, or by discussions of strategies or trends. Although we believe that the expectations reflected in such forward-looking statements are reasonable, we do not know if these expectations will be correct. Such statements by their nature involve substantial risks and uncertainties that could significantly impact expected results. Actual future results could differ materially from those predicted. The factors that could cause actual future results to differ materially from those described herein are the risks and uncertainties discussed in this Annual Report and those described from time to time in our other filings with the SEC include, but are not limited to, the following:

- Future supply and demand for our products
- The extent of the dependence of certain of our businesses on certain market sectors
 - The cyclicity of our businesses
 - Customer inventory levels
- Changes in raw material and other operating costs (such as energy and ore costs)
 - Changes in the availability of raw material (such as ore)
- General global economic and political conditions (such as changes in the level of gross domestic product in various regions of the world and the impact of such changes on demand for TiO₂)
 - Competitive products and substitute products
 - Customer and competitor strategies
 - Potential consolidation of our competitors
 - The impact of pricing and production decisions
 - Competitive technology positions
- Possible disruption of our business or increases in the cost of doing business resulting from terrorist activities or global conflicts
 - The introduction of trade barriers
- Fluctuations in currency exchange rates (such as changes in the exchange rate between the U.S. dollar and each of the euro and the Norwegian krone)
- Operating interruptions (including, but not limited to, labor disputes, leaks, natural disasters, fires, explosions, unscheduled or unplanned downtime and transportation interruptions)
 - The timing and amounts of insurance recoveries
 - Our ability to renew or refinance credit facilities
 - Our ability to maintain sufficient liquidity
- The ultimate outcome of income tax audits, tax settlement initiatives or other tax matters
- Our ability to utilize income tax attributes, the benefits of which have been recognized under the more-likely-than-not recognition criteria
- Environmental matters (such as those requiring compliance with emission and discharge standards for existing and new facilities)
 - Government laws and regulations and possible changes therein
 - The ultimate resolution of pending litigation
 - Possible future litigation

Should one or more of these risks materialize (or the consequences of such a development worsen), or should the underlying assumptions prove incorrect, actual results could differ materially from those forecasted or expected. We

disclaim any intention or obligation to update or revise any forward-looking statements whether as a result of changes in information, future events or otherwise.

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PART I

ITEM 1. BUSINESS

General

Kronos International, Inc., a Delaware corporation, is a leading global producer and marketer of value-added titanium dioxide pigments ("TiO₂"), a base industrial product used in a wide range of applications. We, along with our distributors and agents, sell and provide technical services for our products to over 3,000 customers in approximately 100 countries with the majority of sales in Europe. We believe we have developed considerable expertise and efficiency in the manufacture, sale, shipment and service of our products in international markets.

TiO₂ is a white inorganic pigment used in a wide range of products for its exceptional ability to impart whiteness, brightness, opacity and durability. TiO₂ is a critical component of everyday applications, such as coatings, plastics and paper, as well as many specialty products such as inks, food and cosmetics. TiO₂ is widely considered to be superior to alternative white pigments in large part due to its hiding power (or opacity), which is the ability to cover or mask other materials effectively and efficiently. TiO₂ is designed, marketed and sold based on specific end-use applications.

TiO₂ is the largest commercially used whitening pigment because it has a high refractive rating giving it more hiding power than any other commercially produced white pigment. In addition, TiO₂ has excellent resistance to interaction with other chemicals, good thermal stability and resistance to ultraviolet degradation. Although there are other white pigments on the market, we believe there are no effective substitutes for TiO₂ because no other white pigment has the physical properties for achieving comparable opacity and brightness or can be incorporated in as cost-effective a manner. Pigment extenders such as kaolin clays, calcium carbonate and polymeric opacifiers are used in a number of end-use markets as white pigments. However, these products are not able to duplicate the opacity performance characteristics of TiO₂ and we believe these products are unlikely to have a significant impact on the use of TiO₂.

TiO₂ is considered a "quality-of-life" product. Demand for TiO₂ has generally been driven by worldwide gross domestic product and has generally increased with rising standards of living in various regions of the world. According to industry estimates, TiO₂ consumption, excluding China, has grown at a compound annual growth rate of approximately 2.6% since 1990. Per capita consumption of TiO₂ in the United States and Western Europe far exceeds that in other areas of the world, and these regions are expected to continue to be the largest consumers of TiO₂. We believe that North America and Western Europe account for approximately 24% and 33% of global TiO₂ consumption, respectively. Markets for TiO₂ are increasing in South America, Eastern Europe, the Far East and China and we believe they will become significant as economies in these regions continue to develop and quality-of-life products, including TiO₂, experience greater demand.

In recent years, global production capacity for TiO₂ has modestly increased due primarily to debottlenecking existing chloride production facilities. However, during 2008 and 2009 several TiO₂ manufacturers have permanently reduced capacity at high operating cost facilities in Europe, North America and China, in part in connection with environmental-related issues. Decreased capacity, along with the decline in customer inventories which occurred in the first half of 2009, led to industry-wide tightness in TiO₂ inventories. As a result of these factors, TiO₂ selling prices began to increase in the second half of 2009, and continued to increase during 2010. Further increases in TiO₂ selling prices are expected to be implemented in 2011. We believe the decreased capacity, higher demand and improved pricing should result in improved operating rates and product margins for TiO₂ producers.

We are registered in the Commercial Register of the Federal Republic of Germany. We are a wholly-owned subsidiary of Kronos Worldwide, Inc. (NYSE: KRO; "Kronos"). At December 31, 2010, (i) Valhi, Inc. (NYSE: VHI) held approximately 50% of Kronos' common stock and NL Industries, Inc. (NYSE: NL) held approximately 30% of Kronos' common stock, (ii) Valhi held approximately 83% of NL's outstanding common stock and (iii) Subsidiaries of Contran Corporation held approximately 94% of Valhi's outstanding common stock. Substantially all of Contran's outstanding voting stock is held by trusts established for the benefit of certain descendants of Harold C. Simmons (of which Mr. Simmons is trustee), or is held by persons or other entities related to Mr. Simmons. Consequently, Mr. Simmons may be deemed to control all of these companies.

In November, 2010, Kronos completed a secondary public offering of 8.97 million shares of Kronos common stock. Upon completion of the offering, the Valhi consolidated aggregate ownership of Kronos was reduced from 95.2% (59.2% held by Valhi directly and 36.0% held by NL directly) to 80.4% (50.0% held by Valhi directly and 30.4% held by NL directly). We did not receive any of the net proceeds from such offering.

Products and End-Use Markets

We, including our predecessors, have produced and marketed TiO₂ in Europe, our primary market, for over 80 years. We estimate our current market share at 22%. We believe we are the largest producer of TiO₂ in Europe with over three-fourths of our sales volumes attributable to markets in Europe.

We believe we are the leading seller of TiO₂ in several countries, including Germany, with an estimated 9% share of worldwide TiO₂ sales volume in 2010.

We offer our customers a broad portfolio of products that include over 40 different TiO₂ pigment grades under the Kronos® trademark which provide a variety of performance properties to meet customers' specific requirements. Our major customers include domestic and international paint, plastics and paper manufacturers. We ship TiO₂ to our customers in either a powder or slurry form via rail, truck or ocean carrier. Sales of our core TiO₂ pigments represented over 86% of our net sales in 2010. We and our agents and distributors primarily sell and provide technical services for our products in three major end-use markets: coatings, plastics and paper. The following tables show our approximate sales volume by geographic region and end use for the year ending December 31, 2010:

Sales Volumes Percentages by Geographic Region		Sales Volumes Percentages by End Use	
Europe	80%	Coatings	50%
North America	1%	Plastics	32%
Asia Pacific	14%	Paper	16%
Rest of World	5%	Other	2%

Some of the principal applications for our products include the following:

TiO₂ for Coatings. Our TiO₂ is used to provide opacity, durability, tinting strength and brightness in industrial coatings, as well as coatings for home interiors and exteriors, automobiles, aircraft, machines, appliances, traffic paint and other special purpose coatings. The amount of TiO₂ used in coatings varies widely depending on the opacity, color and quality desired. Generally, the higher the opacity requirement of the coating, the greater the TiO₂ content.

TiO₂ for Plastics. We produce TiO₂ pigments that improve the optical and physical properties in plastics, including whiteness and opacity. TiO₂ is used to provide opacity in items such as containers and packaging materials, and vinyl products such as windows, door profiles and siding. TiO₂ also generally provides hiding power, neutral undertone, brightness and surface durability for housewares, appliances, toys, computer cases and food packages. TiO₂'s high brightness along with its opacity, is used in some engineering plastics to help mask their undesirable natural color. TiO₂ is also used in masterbatch, which is a concentrate of TiO₂ and other additives and is one of the largest uses for TiO₂ in the plastics end-use market. In masterbatch, the TiO₂ is dispersed at high concentrations into a plastic resin and is then used by manufacturers of plastic containers, bottles and packaging and agricultural films.

TiO₂ for Paper. Our TiO₂ is used in the production of several types of paper, including laminate (decorative) paper, filled paper and coated paper, to provide whiteness, brightness, opacity and color stability. Although we sell our TiO₂ to all segments of the paper end-use market, our primary focus is on the TiO₂ grades used in paper laminates, where several layers of paper are laminated together using melamine resin under high temperature and pressure. The top layer of paper contains TiO₂ and is the layer that is printed with decorative patterns. Paper laminates are used to replace materials such as wood and tile for such applications as counter tops, furniture and wallboard. TiO₂ is beneficial in these applications because it assists in preventing the material from fading or changing color after prolonged exposure to sunlight and other weathering agents.

TiO₂ for Other Applications. We produce TiO₂ to improve the opacity and hiding power of printing inks. TiO₂ allows inks to achieve very high print quality while not interfering with the technical requirements of printing machinery, including low abrasion, high printing speed and high temperatures. Our TiO₂ is also used in textile applications where TiO₂ functions as an opacifying and delustering agent. In man-made fibers such as rayon and polyester, TiO₂ corrects an otherwise undesirable glossy and translucent appearance. Without the presence of TiO₂, these materials would be unsuitable for use in many textile applications.

We produce high purity sulfate process anatase TiO₂ used to provide opacity, whiteness and brightness in a variety of cosmetic and personal care products, such as skin cream, lipstick, eye shadow and toothpaste. Our TiO₂ is also found in food products, such as candy and confectionaries, and in pet foods where it is used to obtain uniformity of color and appearance. In pharmaceuticals, our TiO₂ is used commonly as a colorant in pill and capsule coatings as well as in liquid medicines to provide uniformity of color and appearance. Kronos® purified anatase grades meet the applicable requirements of the CTFA (Cosmetics, Toiletries and Fragrances Association), USP and BP (United States Pharmacopoeia and British Pharmacopoeia) and the FDA (United States Food and Drug Administration).

Our TiO₂ business is enhanced by the following three complementary businesses, which comprised approximately 14% of our net sales in 2010:

- We own and operate two ilmenite mines in Norway pursuant to a governmental concession with an unlimited term. We commenced production from our second mine in 2009. Ilmenite is a raw material used directly as a feedstock by some sulfate-process TiO₂ plants. We believe we have a significant competitive advantage because our mines supply our feedstock requirements for all of our European sulfate-process plants. We also sell ilmenite ore to third-parties, some of whom are our competitors. The mines have estimated ilmenite reserves that are expected to last at least 60 years.
- We manufacture and sell iron-based chemicals, which are co-products and processed co-products of the sulfate and chloride process TiO₂ pigment production. These co-product chemicals are marketed through our Ecochem division and are primarily used as treatment and conditioning agents for industrial effluents and municipal wastewater as well as in the manufacture of iron pigments, cement and agricultural products.
- We manufacture and sell titanium oxychloride and titanyl sulfate, which are side-stream specialty products from the production of TiO₂. Titanium oxychloride is used in specialty applications in the formulation of pearlescent pigments, production of electroceramic capacitors for cell phones and other electronic devices. Titanyl sulfate productions are used in pearlescent pigments, natural gas pipe and other specialty applications.

Manufacturing, Operations and Properties

We produce TiO₂ in two crystalline forms: rutile and anatase. Rutile TiO₂ is manufactured using both a chloride production process and a sulfate production process, whereas anatase TiO₂ is only produced using a sulfate production process. Many end-use applications can use either form, especially during periods of TiO₂ supply tightness such as we are currently experiencing. The chloride process is the preferred form for use in coatings and plastics, the two largest end-use markets. Due to environmental factors and customer considerations, the proportion of TiO₂ industry sales represented by chloride process pigments has increased relative to sulfate process pigments and, in 2010, chloride process production facilities represented approximately 60% of industry capacity. The sulfate process represents a much smaller percentage of annual global TiO₂ production and is preferred for use in selected paper products, ceramics, rubber tires, man-made fibers, food and cosmetics. Once an intermediate TiO₂ pigment has been produced by either the chloride or sulfate process, it is “finished” into products with specific performance characteristics for particular end-use applications through proprietary processes involving various chemical surface treatments and intensive micronizing (milling).

- **Chloride Process.** The chloride process is a continuous process in which chlorine is used to extract rutile TiO₂. The chloride process typically has lower manufacturing costs than the sulfate process due to higher yield, less waste, lower energy requirements and lower labor costs. This process has also gained market share over the sulfate process because of the relatively lower upfront capital investment in plant and equipment required. The chloride process produces less waste than the sulfate process because much of the chlorine is recycled and feedstock bearing higher titanium content is used. The chloride process produces an intermediate base pigment with a wide range of properties.
- **Sulfate Process.** The Sulfate process is a batch process in which sulfuric acid is used to extract the TiO₂ from ilmenite or titanium slag. After separation from the impurities in the ore (mainly iron) the TiO₂ is precipitated and calcined to form an intermediate base pigment ready for sale or can be upgraded through finishing treatment.

We produced 349,000 metric tons of TiO₂ in 2010, up from the 257,000 metric tons we produced in 2009. Our average production capacity utilization rates were near full capacity in 2008 and 2010 and approximately 71% in 2009. In late 2008, and as a result of the sharp decline in global demand, we experienced a build up in our inventory levels. In order to decrease our inventory levels and improve our liquidity, we implemented production curtailments during the first half of 2009. Consequently, our average production capacity utilization rates were approximately 51% during the first half of 2009 as compared to 92% during the second half of 2009.

We operate four TiO₂ plants in Europe (one in each of Leverkusen, Germany; Nordenham, Germany; Langerbrugge, Belgium; and Fredrikstad, Norway). We operate two ilmenite mines in Hauge i Dalane, Norway pursuant to a governmental concession.

Our production capacity in 2010 was 362,000 metric tons, approximately two-thirds of which was from the chloride production process. The following table presents the division of our 2010 manufacturing capacity by plant location and type of manufacturing process:

Facility	Description	% of Capacity by TiO ₂ Manufacturing Process			
		Chloride	Sulfate	Chloride	Sulfate
Leverkusen, Germany (1)	TiO ₂ production, chloride and sulfate process, co-products	67	30	%	%
Nordenham, Germany	TiO ₂ production, sulfate process, co-products	-	47		
Langerbrugge, Belgium	TiO ₂ production, chloride process, co-products, titanium chemicals products	33	-		
Fredrikstad, Norway (2)	TiO ₂ production, sulfate process, co-products	-	23		
Total		100	100	%	%

(1) The Leverkusen facility is located within an extensive manufacturing complex owned by Bayer AG. We own the Leverkusen facility, which represents about one-half of our current TiO₂ production capacity, but we lease the land under the facility from Bayer under a long term agreement which expires in 2050. Lease payments are periodically negotiated with Bayer for periods of at least two years at a time. Bayer or its affiliates provides some raw materials, including chlorine, auxiliary and operating materials, utilities and services necessary to operate the Leverkusen facility under separate supplies and services agreements.

(2) The Fredrikstad plant is located on public land and is leased until April 2013 with an option to extend the lease for an additional 50 years.

We own the land underlying all of our principle production facilities unless otherwise indicated in the table above.

Our production capacity has increased by approximately 30% over the past ten years due to debottlenecking programs, with only moderate capital expenditures. We believe that our annual attainable production capacity for 2011 is approximately 362,000 metric tons and we currently expect we will operate at near full production capacity for the year.

We also operate two ilmenite mines in Norway pursuant to a governmental concession with an unlimited term. Our principal place of business is in Leverkusen, Germany.

We have various corporate and administrative offices located in Germany, Norway, and Belgium and various sales offices located in Belgium, France, the Netherlands and the U.K.

Raw Materials

The primary raw materials used in chloride process TiO₂ are titanium-containing feedstock (natural rutile ore or purchased slag), chlorine and coke. Chlorine is available from a number of suppliers, while petroleum coke is available from a limited number of suppliers. Titanium-containing feedstock suitable for use in the chloride process is available from a limited but increasing number of suppliers principally in Australia, South Africa, Canada, India and the United States. We purchase chloride process grade slag from Rio Tinto Iron and Titanium under a long-term supply contract that expires at the end of 2011 and from Exxaro TSA Sands (PTY) LTD under a supply contract that expires in December 2013. We purchase upgraded slag from Q.I.T. Fer et Titane Inc. (a subsidiary of Rio Tinto Iron and Titanium) under a long-term supply contract that expires at the end of 2015. We purchase natural rutile ore primarily from Iluka Resources, Limited under contracts that expire at the end of 2011. In the past we have been, and we expect in the future, we will continue to be, successful in obtaining long-term extensions to these and other existing supply contracts prior to their expiration. We expect the raw materials purchased under these contracts to meet our chloride process feedstock requirements over the next several years.

The primary raw materials used in sulfate process TiO₂ are titanium-containing feedstock, primarily ilmenite or purchased sulfate grade slag and sulfuric acid. Sulfuric acid is available from a number of suppliers. Titanium-containing feedstock suitable for use in the sulfate process is available from a limited number of suppliers principally in Norway, Canada, Australia, India and South Africa. As one of the few vertically-integrated producers of sulfate process TiO₂, we operate two rock ilmenite mines in Norway, which provided all of the feedstock for our sulfate process TiO₂ plants in 2010. We expect ilmenite production from our mines to meet our sulfate process feedstock requirements for the foreseeable future.

Many of our raw material contracts contain fixed quantities we are required to purchase, although these contracts allow for an upward or downward adjustment in the quantity purchased. The pricing under these agreements is generally negotiated annually.

The following table summarizes our raw materials purchased or mined in 2010.

Production Process/Raw Material	Raw Materials Procured or Mined (In thousands of metric tons)
Chloride process plants:	
Purchased slag or natural rutile ore	256
Sulfate process plants:	
Ilmenite ore mined and used internally	328

Kronos U.S. (“KUS”), an affiliate and subsidiary of our parent company, has long-term supply contracts that provide for certain of its affiliates’, including us, TiO₂ feedstock requirements. KUS purchases the rutile and slag feedstock used as a raw material in all of our chloride process TiO₂ facilities. We purchase such feedstock from KUS for use in our facilities for an amount equal to the amount paid by KUS to the third-party supplier plus an administrative fee. See Note 11 to our Consolidated Financial Statements.

Sales and Marketing

Our marketing strategy is aimed at developing and maintaining strong customer relationships with new and existing accounts. Because TiO₂ represents a significant raw material cost for our customers, the purchasing decisions are often made by our customers’ senior management. We work to maintain close relationships with the key decision makers, through in-depth frequent in-person meetings. We endeavor to extend these commercial and technical relationships to multiple levels within our customers’ organization using our direct sales force and technical service group to accomplish this objective. We believe this has helped build customer loyalty to Kronos and strengthen our competitive position. Close cooperation and strong customer relationships enable us to stay closely attuned to trends in our customers’ businesses. Where appropriate, we work in conjunction with our customers to solve formulation or application problems by modifying specific product properties or developing new pigment grades. We also focus our sales and marketing efforts on those geographic and end-use market segments where we believe we can realize higher selling prices. This focus includes continuously reviewing and optimizing our customer and product portfolios.

Our marketing strategy is also aimed at working directly with customers to monitor the success of our products in their end-use applications, evaluate the need for improvements in product and process technology and identify opportunities to develop new product solutions for our customers. Our marketing staff closely coordinates with our sales force and technical specialists to ensure that the needs of our customers are met, and to help develop and commercialize new grades where appropriate.

We sell a majority of our products through our direct sales force operating from six sales offices in Europe. We also utilize sales agents and distributors who are authorized to sell our products in specific geographic areas. Our sales efforts are conducted primarily through our direct sales force and our sales agents. Our agents do not sell any TiO₂ products other than Kronos® brand products. In addition to our direct sales force and sales agents, many of our sales agents also act as distributors to service our smaller customers. We offer the same high level of customer and technical service to the customers who purchase our products through distributors as we offer to our larger customers serviced by our direct sales force.

We sell to a diverse customer base and no single customer made up more than 10% of our sales for 2010. Our largest ten customers accounted for approximately 21% of sales in 2010.

Neither our business as a whole nor that of any of our principal product groups is seasonal to any significant extent. However, TiO₂ sales are generally higher in the second and third quarters of the year, due in part to the increase in paint production in the spring to meet demand during the spring and summer painting seasons. We have historically operated our production facilities at near full capacity rates throughout the entire year, which among other things helps to minimize our per-unit production costs. As a result, we normally will build inventories during the first and fourth quarters of each year, in order to maximize our product availability during the higher demand periods normally experienced in the second and third quarters.

Competition

The TiO₂ industry is highly competitive. We compete primarily on the basis of price, product quality, technical service and the availability of high performance pigment grades. Since TiO₂ is not a traded commodity, its pricing is largely a product of negotiation between suppliers and their respective customers. Although certain TiO₂ grades are considered specialty pigments, the majority of our grades and substantially all of our production are considered commodity pigments with price and availability being the most significant competitive factors along with quality and customer service. During 2010, we had an estimated 9% share of worldwide TiO₂ sales volume, and based on sales volumes, we believe we are the leading seller of TiO₂ in several countries, including Germany.

Our principal competitors are E.I. du Pont de Nemours & Co., or Dupont; Millennium Inorganic Chemicals, Inc. (a subsidiary of National Titanium Dioxide Company Ltd.), or Cristal; Huntsman Corporation; Tronox Incorporated; and Sachtleben Chemie GmbH. The top five TiO₂ producers account for approximately 63% of the world's production capacity. The following chart shows our estimate of worldwide production capacity in 2010:

Worldwide Production Capacity - 2010

DuPont	23	%
Cristal	14	%
Kronos Worldwide*	10	%
Huntsman	9	%
Tronox	7	%
Other	37	%

* Our production capacity represents approximately 68% of Kronos Worldwide's production capacity.

Tronox filed for Chapter 11 bankruptcy protection in January 2009, and has continued to operate as a debtor-in-possession until February 2011, at which time it emerged from Chapter 11. It remains unclear how and to what extent Tronox will compete in the TiO₂ industry at the conclusion of Tronox's bankruptcy proceedings.

Over the past ten years, we and our competitors have increased industry capacity through debottlenecking projects, which in part compensated for the shut down of TiO₂ plants in France, the United States and China. Although overall industry pigment demand is expected to be higher in 2011 as compared to 2010 as a result of improving worldwide economic conditions, we do not expect any significant efforts will be undertaken by us or our competitors to further increase capacity for the foreseeable future, other than through debottlenecking projects. If actua