

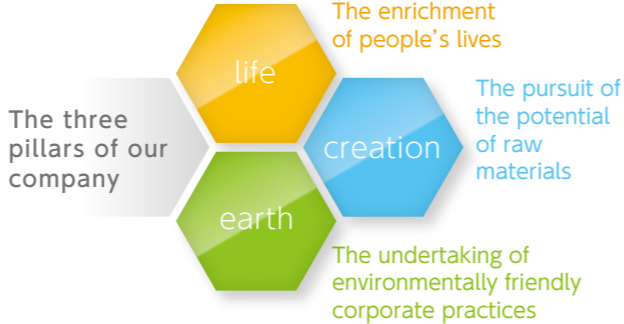
Building the future

# The dream materials company

The titanium oxide and synthetic iron oxide that our company produces is used in various everyday products, such as cosmetics, building materials, chemical fibers, paper products and coatings.

Our purpose here at Titan Kogyo, Ltd. is to pursue the potential of these raw materials to create more comfortable and abundant living.

As we continue making strides, now and into the future, our goal is an enterprise that is both environmentally and people friendly.



## PRODUCTS

# From a black mineral ore come the colors that light up our lives.

We produce white pigmented titanium oxide from the black ilmenite ore. From the large quantity of iron sulfate created at the time of titanium oxide production, we bring forth a synthetic iron oxide that undergoes change into a variety of colors, like reds and yellows. We are fascinated by the world of color ushered in by this black mineral ore.

### | KRONOS Titanium Oxide

Extremely stable chemically and thermally, KRONOS titanium oxide possesses a high degree of whiteness. It has applications as a pigment in all fields relating to color, including chemical fibers, printer inks and a variety of coatings.

#### Applications

Paper manufacturing, titanium condensers, rubber, printer ink, coatings, plastics, artist paints, crayons, ceramics, chemical fibers, and film, among others.

### | Ultrafine Titanium Oxide

We have the two forms of anatase and rutile, with the former being used predominantly in electrophotographic toner additives, and the latter used in UV protection cosmetics. As a toner additive, it has a high level of fluidity and the effect of adjusting static charge. We provide a range of products for cosmetics applications, from those that have UV protection and high transparency to those with high quality textures.

#### Applications

UV protection cosmetics, UV protection film, electrophotographic toner additives, flip-flop coatings, and catalysts, among others.

### | Titanium Oxide for Cosmetics

#### Silky Touch Titanium Oxide ST-700 Series

This series has moderate coverage and UV blocking properties, and is extremely smooth to the touch. The availability of various particle sizes allows for selection according to intended application.

#### Ultrafine Titanium Oxide for Cosmetics ST-400 Series

The benefit of this series is UV blocking and high transparency. Selection according to intended application is possible with the existence of brands of varying particle size and shape, as well as brands with a wide variety of surface finishes.

### | TAROX Synthetic Iron Oxide

With a high purity and uniform quality, this product's features are high brightness and saturation in pale and deep colors. In addition to low oil absorption and high dispersibility, it is drawing attention as a high-grade raw material due to its great tinting strength and coverage, good durability and non-toxicity.

#### Applications

Coatings, printer ink, plastics, ferrite, magnetic toner, and cosmetics, among others.

### | Iron Oxide Pearl Pigment

As a result of having a refractive index of approximately 3.0, this pigment has a high particle surface light reflectivity, and exhibits high quality characteristics as a material that gives a sparkle to resin. These sheeted particles have good dispersibility, and are harmless, extremely stable thermally, and have a high-grade orientation within the coated film.

#### Applications

Coatings, plastics, printer ink, and cosmetics, among others

### | Iron sulfate

Iron sulfate is a by-product of the titanium oxide production process. It well-reputed as a material friendly to the environment and is used as a coagulant in water treatment and as a soil conditioner.

#### Applications

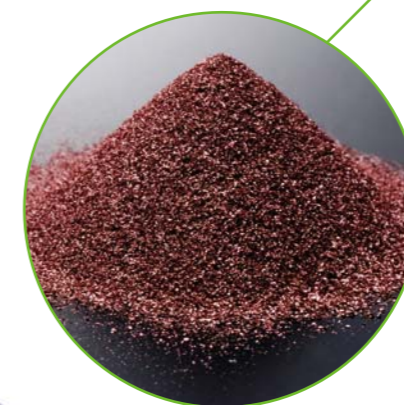
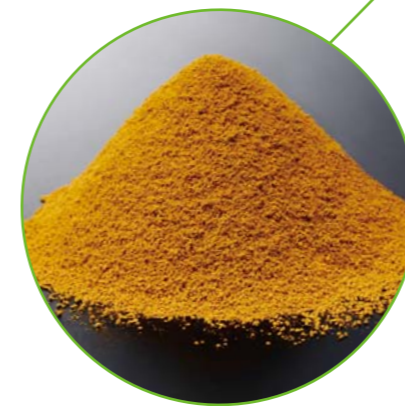
Coagulants for water treatment, corrosion control agents of seawater cooling heat exchangers at power plants, and soil conditioners, among others.

### | Conductive Inorganic Oxide

Possessing an extremely high degree of whiteness, conductive inorganic oxide is extremely stable chemically and physically due to being an inorganic oxide. Moreover, it has the characteristic of relatively little change in resistance due to humidity. Making use of these attributes, it has expanding applications in anti-static coating, for example in clean rooms, conductive fiber, electrophotographic toner and carrier static charge adjustment, and for resistance adjustment.

#### Applications

Anti-static coating, conductive material of anti-static resin, conductive material for electro-static coating, and electrophotographic toner additives, among others.



# We pursue our ideals with a belief in great potential.

Titan Kogyo, Ltd. holds to the ideals of 'customer orientation, efficient management, and social contribution', and undertakes its corporate activities with the goal to further enrich people's lives and contribute to society.

We call ourselves 'the dream materials company'.

We believe in the potential of a variety of raw materials and will continue to make strides, now and into the future.

## Corporate Philosophy



## Guiding Principles

### 1. Innovation

**Each individual constantly reviews their work style, and immediately improves any areas that require improvement.**

We endeavor not just to continue our previous practices, but to constantly improve in every aspect, in order to be beneficial to our customers and the local community.

### 2. Trust

**We earn the trust of our customers and of the local community through our commitment to our locality-first policy.**

We constantly strive for the trust of our customers and of the local community, not just with the assertion of general statements, but by never forgetting the spirit of our locality-first policy.

### 3. Promptness

**We value speed in business operations, and take advantage of every business opportunity.**

We endeavor to respond promptly to meet customers' requested time schedules and to attain business opportunities through the provision of high quality products and services.

## Corporate Profile

Company name: Titan Kogyo, Ltd.  
Establishment: June 1936  
Business description: Production and sale of industrial chemicals pertaining to titanium oxide and iron oxide  
Principal products: KRONOS Titanium Oxide, Ultrafine Titanium Oxide, Titanium Oxide for Cosmetics, Conductive Inorganic Oxide, Titanium Oxide Lithium, TAROX Synthetic Iron Oxide, Iron Oxide Pearl Pigment, and Iron Sulfate

## Corporate History

1936, June: Founded for the goal of domestic production of titanium oxide  
1938, June: Completion of the Ube Plant, operations commence  
1938, August: Acquisition of Nippon Ryusan, Ltd.  
1962, October: Public listing on the Tokyo Stock Exchange, Second Section  
1965, April: Synthetic iron oxide sales commence  
1969, June: Magnetic iron oxide sales commence  
1987, September: Listing change to the First Section of the Tokyo Stock Exchange  
1993, July: Completion of the Ube Development Center  
2000, December: Attainment of ISO-9002:1994 certification  
2003, August: Attainment of ISO-14001:2000 certification  
2003, December: Attainment of ISO-9001:2000 certification  
2004, May: Establishment of Shandong Sansei Kogyo, Ltd. (affiliated company) with the merger of Mitsui, Ltd. and Shandong Dongjia Group, Ltd. (China) in Shangdong, China  
2004, September: Enhancement of the production capacity of the Ube Development Center  
2005, September: Attainment of ISO-14001:2004 certification  
2006, October: Establishment of TK Service, Ltd. (subsidiary company)  
2010, October: Completion of the Ube Nishi Plant, operations commence  
2012, April: Enhancement of the production capacity of the Ube Nishi Plant



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