

TITANIUM DIOXIDE

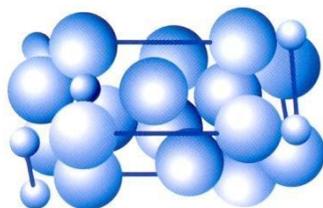
Titanium Dioxide is a micronized powdered inorganic pigment obtained from ilmenite mineral. It is produced by two processes: Sulfate process and Chlorine process.

In sulfate process, the mineral is subject to a digestion with sulfuric acid and extracted as sulfate salts and then is subject to a hydrolysis, calcination and a grinding stage.

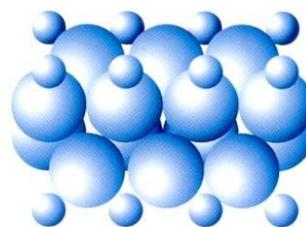
In the chlorine process is used chlorine instead of sulfuric acid, as a result it can produce in most economical form less-impurities products, and it has the environment-friendly advantage.

Due to its tetragonal crystalline form, **Titanium Dioxide** is found in nature in two main forms:

- *Anatase*



- *Rutile*



Properties

<i>Appearance:</i>	White powder
<i>TiO₂, %:</i>	> 90.0 %
<i>pH (aqueous solution):</i>	6.0 – 8.5
<i>Oil absorption (g/100g):</i>	35.0 max.
<i>Humidity, %:</i>	1.0 max.
<i>Retained in 325 mesh, %:</i>	0.5 – 1.0
<i>Average density (g/cm³):</i>	3.9 – 4.1

Treatment

Titanium Dioxide is characterized by a surface treatment that allows improving its dispersibility properties, tint-reducing power, surfaces compatibility and oil absorption. The commonly used treatments are:

- Organic
- Inorganic: Alumina, Silica, Zinc

Applications

Titanium Dioxide is characterized by a great tint-reducing power, good dispersibility and an excellent performance, which may be visualized in the cost-benefit. It is used in many industries in broad applications within which are:

- Paper
 - Coated papers
 - Flat papers
 - Paper laminates
- Paints
 - Interior paints
 - Exterior paints
 - Automotive paints
 - Vinyl paints
 - Acrylic paints
- Inks
 - Flexography
 - Off-set
 - Printing
- Plastics
 - PVC
 - Polyolefin
 - ABS
 - Engineering plastics
 - Rubber
- Textile
 - PET fibers
 - Polyester fibers

Safety

Titanium Dioxide is not classified as a hazardous material if proper precautions are taken in handling of chemicals under the classification of the 67/548/EEC Direction.

Packaging and Storage

Titanium Dioxide is available at 25 Kg paperbags. Keep away from dyestuffs to avoid any possible contamination by volatile matter.

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Básicos y Colorantes, S.A. de C.V.

San Francisco No 12, Col. San Francisco Cuautlalpan, Naucalpan Edo. de México
Tel. +52 55 5358-2011, Fax. +52 55 5358-2685, <http://www.byc.com.mx>