



# Ti-Pure™

## TS-6700 Titanium Dioxide

## Product Information

### Product Description

Ti-Pure™ TS-6700 is part of the Ti-Pure™ Sustainability (TS) product series. Ti-Pure™ TS-6700 is a rutile titanium dioxide pigment manufactured by the chloride process. This grade is designed to deliver excellent opacity, high gloss, and outstanding durability while meeting the emerging sustainability requirements facing coating producers. Ti-Pure™ TS-6700 is TMP- and TME-free and **is made with 100% renewable electricity**. Ti-Pure™ TS-6700 has the following general properties.

**Table 1.**

Analysis and Physical Properties of Ti-Pure™ TS-6700

Property	TS-6700
TiO <sub>2</sub> , wt%, min.	93
Alumina, wt%	2.5
Amorphous Silica, wt%	3.0
Specific Gravity	4.0
Bulking Value, L/kg (gal/lb)	0.25 (0.03)
Organic Treatment	Yes
Color CIE L*	99.4
Median Particle Size, μm	0.36
Oil Absorption	13.9
pH	7.5
Resistance at 30 °C (86 °F) (1,000 ohm)	4.5
Carbon Black Undertone	13.8

Note: All values are typical unless otherwise specified.

### Product Sustainability Designations:



Climate Impact



Health & Wellness

### Key Features

- TMP- and TME- Free
- Outstanding durability
- Excellent dispersibility
- Made with 100% renewable electricity
- Fast wet-in
- High gloss
- Blue undertone

### Advancing Health and Wellness: TMP- and TME Free

Ti-Pure™ TS-6700 is designed and produced with a bio-based organic surface treatment that brings together performance, processing, and sustainability.

### Outstanding Durability

Unique encapsulation of the TiO<sub>2</sub> particle by a continuous coating of silica (SiO<sub>2</sub>) is responsible for the excellent durability of Ti-Pure™ TS-6700. Florida exposure data for Ti-Pure™ TS-6700 shows excellent gloss retention and chalk resistance.

### Excellent Dispersibility

The unique surface treatment of Ti-Pure™ TS-6700 facilitates excellent dispersibility and enables faster wet-in, reduced dispersant demand, and lower grind energy in some formulations.

### Fast Wet-in

Novel precipitation of the silica and alumina surface treatments result in the low oil absorption properties of Ti-Pure™ TS-6700 that are responsible for its excellent wet-in. Less power required for Ti-Pure™ TS-6700 dispersion could result in productivity gains and capacity increases.

### High Gloss

Careful control of the TiO<sub>2</sub> particle size during manufacture of Ti-Pure™ TS-6700 results in exceptional gloss performance. Ti-Pure™ TS-6700 has a tight particle size distribution, resulting in fewer oversized particles that detract from gloss.

### Good Hiding

The low surface treatment levels of amorphous silica and alumina result in a high TiO<sub>2</sub> content for Ti-Pure™ TS-6700, contributing to good hiding. The Particle Size Distribution of Ti-Pure™ TS-6700 is optimized for enhanced scattering efficiency.

### Blue Undertone

Small particle size TiO<sub>2</sub> grades scatter blue light more effectively than larger particle size grades and hence have a bluer undertone. The bluer undertone of Ti-Pure™ TS-6700 imparts a brighter, cleaner white.

### Shipping Containers

Ti-Pure™ TS-6700 is available in 25-kg paper bags and semi-bulk containers (1/2 and 1 metric ton).

### Product Storage

The shelf life of Ti-Pure™ TiO<sub>2</sub> is indefinite as long as the material is kept from direct contact with moisture.

For further information about this grade or to request a sample, please see the Ti-Pure web site.

[tipure.com](http://tipure.com)

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