Ti-Pure™

TS-6200 Titanium Dioxide

Product Information

Product Description

Ti-Pure™ TS-6200 is part of the Ti-Pure™ Sustainability product series. This is a super durable grade specifically designed to advance sustainability, minimize climate impact, and maximize resource efficiency through improved dispersion and reduced energy, extended product life, and avoided waste. Ti-Pure™ TS-6200 offers excellent gloss retention coupled with unique dispersing capabilities, making it an ideal solution for the most demanding durable applications.

Ti-Pure™ TS-6200 is a fine dry powder with the following general properties:

Table 1

Analysis and Physical Properties of Ti-Pure™ TS-6200

Property	Value
TiO_2, wt%	93
Alumina, wt%	3.6
Silica, wt%	3.3
Specific Gravity	4.0
Bulking Value, L/kg (gal/lb)	0.25 (0.03)
Organic Treatment	Yes
Color CIE L*	99.4
pH	8
Carbon Black Undertone	13.0

Note: All values are typical unless otherwise specified.

Key Features

- High inital gloss
- Super durability
- Super processibility

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Product Sustainability Designations:

Climate Impact

Resource Efficiency

- Excellent gloss retention
- All in one premium pigment

Suggestions for Use

Ti-Pure™ TS-6200 is a specialty application pigment combining high gloss retention, good initial gloss, high hiding power, minimal dispersant demand and excellent dispersion. Recommended use is in:

- Automotive coatings
- Coil coatings
- Durable industrial coatings
- Fluorinated polymer coatings

Excellent Gloss Retention

Gloss is an important feature in many super durable coatings applications, and retention of gloss over the life of a product is of high importance to consumers. Gloss retention is controlled by many factors, including resin chemistry and the inherent durability of the TiO_2 pigment employed in the coatings.

Exceptional Durability via Silica Shell Technology

Ti-Pure™ TS-6200 couples an advanced silica coating technology with a proprietary surface treatment to give maximum resistance to photocatalytic degradation. This new technology represents a significant improvement over the traditional method of silica encapsulation found on most super durable TiO_2 pigments.

Superior Chalk Resistance

Chalking and color fade are two common reasons for consumer dissatisfaction with durable coatings. Both are caused by the degradation of organic binder from the film surface, which leaves loosely attached TiO_2 particles on the coating surface. This not only imparts a "chalky" appearance to the coating, but also leads to color fade resulting from exposed TiO_2 particles scattering light away from the film before it can interact with the colored pigments.

Superior Dispersibility

The unique surface chemistry of Ti-Pure™ TS-6200 is tailor-made for easy dispersion—dispersion so easy that in some cases laborious, multi-step grinds can be reduced to a single, fast grind. Rapid dispersion results in greater rate, not only because dispersion times are decreased, but also because TiO_2 levels in the dispersion can be increased.

Low Dispersant Demand

The improved dispersibility of Ti-Pure™ TS-6200 is also evident in its remarkably low dispersant demand. Ti-Pure™ TS-6200 needs as little as one fourth the dispersant load of other super durable pigments. Lower dispersant requirements can lead to significant cost savings, and by removing dispersant from the paint, the coatings manufacturer has the formulating flexibility to replace dispersant with other key ingredients.

For safety information, please visit the product Safety Data Sheet (SDS).

Shipping Containers

Ti-Pure™ TS-6200 is available in 25-kg paper bags and 1 tonne semibulk containers. Truckload shipments of the dry product will be available directly from Chemours. Less-than-truckload volumes are available through authorized Ti-Pure distributors. Call your local sales office for the distributor nearest you.

Product Storage

The shelf life of Ti-Pure™ TS-6200 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 T-Pure™ web site. tipure.com

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