

DuPont™ Ti-Pure® R-960

TITANIUM DIOXIDE

Product Description

DuPont™ Ti-Pure® R-960 is a rutile titanium dioxide pigment manufactured by the chloride process for use in applications requiring outstanding chalk resistance, gloss retention, and tint retention. In addition to excellent exterior durability, Ti-Pure® R-960 provides very good dispersion with excellent hiding power and color acceptance.

Table 1
Analysis and Physical Properties of
Ti-Pure® R-960

Property	R-960
TiO ₂ , wt%, min.	89
Alumina, wt%	3.3
Amorphous Silica, wt%	5.5
Specific Gravity	3.9
Bulking Value, L/kg (gal/lb)	0.255 (0.031)
Organic Treatment	No
Color CIE L*	99.9
Median Particle Size, µm	0.50
Oil Absorption	18.7
pH	7.2
Resistance at 30°C (86°F) (1,000 ohm)	6
Carbon Black Undertone	11.6

Note: All values are typical unless otherwise specified.

Suggestions for Use

Because of its outstanding exterior durability, Ti-Pure® R-960 is the pigment of choice for many critical coatings applications including:

- automotive OEM topcoat and refinish
- high durability exterior coil coatings
- aerospace coatings
- powder coatings
- other industrial OEM and specialty coatings requiring superior chalk resistance and tint retention



The miracles of science™

Safety Precautions

- Titanium dioxide is classified as a nuisance dust. Follow all local regulations and DuPont recommendations for exposure limits as described in the Material Safety Data Sheet (MSDS). If the recommended exposure limits of TiO₂ are to be exceeded, NIOSH-approved air-purifying respirators with particulate filters should be used.
- As a matter of good industrial hygiene, gloves and safety glasses with side shields or better eye protection should be worn when handling TiO₂. For more details, refer to the MSDS.

First Aid

- If large amounts of TiO₂ are inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- In case of eye contact, immediately flush with water for at least 15 minutes. Call a physician. In case of skin contact, the compound is not likely to be hazardous, but cleaning the skin after use is advised.

Shipping Containers

Ti-Pure® R-960 is available in 50-lb (25-kg) paper bags and semibulk containers (approximately 1/2 and 1 metric ton). Truckload shipments of the dry product are available directly from DuPont. Less-than-truckload volumes are available through one of the authorized DuPont distributors.

Product Storage

The shelf life of DuPont™ Ti-Pure® TiO₂ 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 DuPont Titanium Technologies web site.

www.titanium.dupont.com

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H-65960-7 (02/07) Printed in the U.S.A.

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