

آنالیز تیتان R-900

(شیمی پل)

DuPont™ Ti-Pure® R-900

TITANIUM DIOXIDE

Product Description

DuPont™ Ti-Pure® R-900 is a rutile titanium dioxide pigment manufactured by the chloride process for general interior coatings applications. It is a fine dry powder with the following general properties.

Table 1
Analysis and Physical Properties of
Ti-Pure® R-900

Property	R-900
TiO ₂ , wt%, min.	94
Alumina, wt%	4.3
Amorphous Silica, wt%	—
Specific Gravity	4.0
Bulking Value, L/kg (gal/lb)	0.25 (0.03)
Organic Treatment	No
Color CIE L*	99.8
Median Particle Size, μm	0.41
Oil Absorption	15.2
pH	8.1
Resistance at 30°C (86°F) (1,000 ohm)	12
Carbon Black Undertone	12.4

Note: All values are typical unless otherwise specified.

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-900 is available in 50-lb (25-kg) paper bags and semibulk containers (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.

Suggestions for Use

Ti-Pure® R-900 is a general-purpose interior pigment combining good gloss, high hiding power, and excellent dispersion.

Recommended use is in:

- interior architectural coatings
- interior industrial coatings
- powder coatings
- coil coatings
- container coatings
- electrodeposition applications

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.



The miracles of science™

