Ti-Pure™

R-746 Titanium Dioxide

Product Information

Product Description

Ti-Pure™ R-746 is a multipurpose rutile titanium dioxide slurry of Ti-Pure™ R-706, manufactured by the chloride process, that is designed to deliver both high gloss and excellent durability in coatings. This outstanding combination of end-use performance properties makes it a versatile pigment in waterborne systems. The properties of Ti-Pure™ R-746 are listed in **Table 1**.

Table 1.

Analysis and Physical Properties of Ti-Pure™ R-746

Property (Dry Counterparts)	R-746
Solids, wt%	76.5
Grit Unbrushed, wt%, 325 Mesh Oversized	0.010
Grit Brushed, wt%, 325 Mesh Oversized	0.001
Slurry Density, lb/gal	19.4
Pigment, lb/gal	14.9
Slurry, pH	8.5
Viscosity, Brookfield at 100 rpm, cP	150
Rheology, Hercules Deflection at 500 rpm, cm	1.2
Emulsion Gloss, 60° at 27 PVC	NA
Emulsion Gloss, 20° at 18 PVC	59
Biocide, Nonmercuric, Nonformaldehyde Releasing	Yes

Note: All values are typical unless otherwise specified.

Test methods used to determine the reported data are available through your Ti-Pure™ sales or technical service representative.

Key Features

- High gloss
- Good hiding
- Blue undertone

High Gloss

Careful control of the TiO_2 particle size during manufacture of Ti-Pure™ R-746 results in exceptional gloss performance. R-746 has a tight particle size distribution, resulting in less oversized particles that detract from gloss.

Good Hiding

The low surface oxide treatment levels result in a high TiO_2 content for Ti-Pure™ R-746, contributing to good hiding. The mean particle size of R-746 approaches the optimum particle size for scattering efficiency.

Blue Undertone

Small particle size TiO_2 grades scatter blue light more effectively than larger particle size grades and hence have a bluer undertone. The bluer undertone of Ti-Pure™ R-746 imparts a brighter, cleaner tint.

Shipping Containers

Ti-Pure™ R-746 is available in rail cars of approximately 50 tons TiO_2 and tank trucks of 15 tons TiO_2. Call Customer Service for more information.

Chemours™

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