

JTCR-506

Product Information

Product Description

JTCR-506 is a multi-purpose rutile titanium dioxide produced by chloride process, designed to provide high gloss and excellent durability for coatings. The perfect combination of these two ultimate performance properties makes it a universal grade for solvent and water-based paints used in construction, industrial, and automotive applications.

Table 1

Analysis and Physical Properties of JTCR-506

Property	Value
TiO ₂ , wt%	≥93.0
Alumina, wt%	2.8
Silica, wt%	3.2
Specific Gravity	4.0
Bulking Value, L/kg (gal/lb)	0.25 (0.03)
Organic Treatment	Yes
Color CIE L*	99.3
Median Particle Size, μm	0.35
Oil Absorption	19
pH	7.0-8.5
Carbon Black Undertone	14.8

Note: All values are typical unless otherwise specified

Key Features

- Excellent durability
- High gloss
- Excellent dispersion
- Easy to wet apply
- Good covering power
- Bluish color

Suggestions for Use

JTCR-506 is a specialty application pigment combining excellent gloss, high hiding power and excellent durability and dispersion.

Recommended use is in:

- Outdoor architectural coatings that require high gloss and weather resistance
- Automotive repair paints and OEM topcoats that require high gloss, vividness, and corrosion resistance
- Industrial coatings with high weather resistance
- Require rapid wetting of the manufacturing process

Excellent dispersion

The surface treatment of Alumina reduces the exposure of particles, thereby achieving excellent dispersion in the solvent system. To improve dispersion in alkyd, we do organic treatments during the production process. Similarly, Silica surface treatment on JTCR-506 also improves water solubility.

Excellent durability

The unique continuous silica coating ensures that JTCR-506 has excellent durability. Durability test data of JTCR-506 shows that it has excellent gloss retention and yellowing resistance in standard alkyd durable formulations. Further weathering tests are currently being conducted in more durable systems.

Shipping Containers

JTCR-506 is available in 25 kg paper bag and 1 metric ton big bag.

Product Storage

The shelf life of JTCR-506 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 JIUTA website.