

# JTCR-505

Titanium Dioxide · Technical Data Sheet

JIUTA Chemical · Quality Titanium Dioxide



## Product Information

JTCR-505 is a multi-purpose rutile titanium dioxide produced by chloride process. It is specially designed for outdoor plastic applications. It has middle color tone and good hiding power which make color mixing easy. Silicon coating technology minimizes the interaction of the titanium dioxide surface with other materials in the plastic matrix.

### Key Features

- High durability
- Resistance to discoloration
- Good fluidity

### Analysis and Physical Properties of JTCR-505

| Property                     | Value       |
|------------------------------|-------------|
| TiO <sub>2</sub> , wt%       | ≥92.0       |
| Rutile conversion rate %     | 99.9        |
| Alumina, wt%                 | 3.5         |
| Silica, wt%                  | 4.2         |
| Specific Gravity             | 4.0         |
| Bulking Value, L/kg (gal/lb) | 0.25 (0.03) |
| Organic Treatment            | Yes         |
| Color CIE L*                 | 99.1        |
| Median Particle Size, μm     | 0.34        |
| Oil Absorption               | 16.5        |
| pH                           | 6.5–8.5     |
| Carbon Black Undertone       | 15.0        |

Note: All values are typical unless otherwise specified

### Suggestions for Use

- Outdoor plastic application
- Film which needs weather-resistant ability

### High durability

JTCR-505 uses optimized SiO<sub>2</sub> coating process technology. The SiO<sub>2</sub> provides a uniform and complete coating to the titanium dioxide surface, acting as a barrier to protect it from reacting with polymers or additives.

### Resistance to discoloration

The various surface treatments used in JTCR-505 provide excellent resistance to photochromic effects. It minimizes lead-induced graying in PVC systems and phenol-induced yellowing in polyethylene systems.

### Shipping Containers

- 25 kg paper/PE bag
- 1 metric ton big bag

### Product Storage

The shelf life of JTCR-505 is indefinite as long as the material is kept from direct contact with moisture. For further information or to request a sample, please visit [jiutatitanium.com](http://jiutatitanium.com).