

SPECIFICATION

Product Name: Titanium Dioxide Rutile R6618
Chemical Formula: TiO_2
CAS Number: 13463-67-7
Molecular Weight: 79.866 g/mol
Appearance: White powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value
TiO ₂ content	%	Min. 94
Rutile Content	%	Min. 97.5
Tinting Strength	-	Min. 115
Oil absorption	g/100g	Max. 25
Oil dispersion	-	Max. 30
Resistivity of water extract liquor	-	Min. 60
Water soluble salt	%	Max. 0.5
Residue in sieve (45 μm)	%	Max. 0.02
pH value of aqueous suspension	-	6.0 – 8.5
Volatile at 105°C	%	Max. 0.5
The content of Fe	PPM	Max. 100

Physical Properties

- Solubility: Insoluble in water. Insoluble in ethanol. Insoluble in acetone. Insoluble in acids. Insoluble in alkalis. Soluble in hydrofluoric acid. Soluble in concentrated sulfuric acid.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Protect from moisture, excessive humidity, and contamination. Keep the container tightly closed in the original, properly labeled packaging to prevent moisture absorption and dust generation. Store away from strong acids, strong alkalis, and incompatible materials, and protect from direct sunlight and excessive heat to maintain product quality and performance

Applications

- Use: Widely used as a white pigment, opacifying agent, and UV-resistant additive in industrial applications. It provides high brightness, opacity, whiteness, weather resistance, and excellent hiding power. It is commonly used in the manufacture of architectural and industrial paints, powder coatings, plastics, masterbatches, printing inks, paper, rubber products, adhesives, sealants, and construction materials. It also improves durability, color stability, and UV protection in finished products.
- Dosage: Titanium Dioxide Rutile R6618 does not have a therapeutic or food dosage, as it is intended only for industrial applications.

Packaging

- Standard Packing: 25 Kgs woven pp bag with inner liner or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
* Specifications are based on the manufacturer's provided specifications.