

Product Data Sheet

Rutile Titanium Dioxide R-902 - General Purpose Coating Grade

Description

Description	Rutile Titanium Dioxide R-902 is a general-purpose, universal rutile grade produced via the chloride or sulfate process and surface-treated with an alumina/silica inorganic coating for balanced durability, dispersion and opacity. It is the standard all-round rutile grade used across a broad range of interior and exterior coatings, inks and general industrial applications.
Applications	Interior and exterior architectural paints Industrial coatings and primers Printing inks General-purpose plastics and rubber compounding
Grade	General Purpose Rutile Grade (R-902 equivalent)
CAS No.	13463-67-7

Key Benefits

1. Excellent opacity and hiding power (high refractive index rutile crystal)
2. Balanced inorganic (Al₂O₃/SiO₂) surface coating for good durability and easy dispersion
3. Consistent whiteness and tinting strength batch to batch
4. Suitable across both interior and exterior coating formulations
5. Good value general-purpose grade for multi-application use

Chemical Analysis & Physical Data

Typical Specification

Parameter	Unit	Specification
TiO ₂ Content	wt%	Min. 92.0
Al ₂ O ₃ (Coating)	wt%	2.0 – 4.0
SiO ₂ (Coating)	wt%	1.0 – 3.0
Moisture (105°C)	wt%	Max. 0.5
pH (Aqueous Suspension)	–	6.5 – 8.5
Oil Absorption	g/100g	18 – 22
Specific Gravity	g/cm ³	3.7 – 4.0
Whiteness (Hunter L*)	–	Min. 96
Average Particle Size	micron	0.20 – 0.25
Appearance	–	White, free-flowing powder

Packaging

Packaging 25 kg Kraft Paper Bags (PE-lined)
500 kg / 1,000 kg Jumbo Bags (FIBC)
Custom packaging available on request.

Storage & Handling

1. Store in a dry, covered warehouse away from moisture
2. Keep bags sealed until point of use to prevent contamination and moisture pickup
3. Avoid stacking beyond recommended pallet heights to prevent bag damage
4. Stack on pallets, away from direct ground contact
5. Use appropriate PPE (dust mask, goggles) when handling – avoid dust generation

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting TiO₂ content, whiteness, tinting strength and oil absorption against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.