

Product Data Sheet

Anatase Titanium Dioxide A-101 - General Purpose Grade

Description

Description	Anatase Titanium Dioxide A-101 is a general-purpose anatase grade offering high whiteness and a characteristic blue undertone. It is the standard anatase grade for paper, rubber, interior coatings and other applications where anatase's brightness and lower cost are preferred over rutile's superior exterior durability.
Applications	Paper coating and paper filling Rubber compounding Interior/low-durability coatings and emulsion paints General-purpose applications where photocatalytic activity is not a concern
Grade	General Purpose Anatase Grade (A-101 equivalent)
CAS No.	13463-67-7

Key Benefits

1. High whiteness with characteristic blue undertone
2. Cost-effective alternative to rutile for indoor/lower-durability applications
3. Good dispersion in paper pulp and rubber compounding systems
4. Consistent particle size for uniform brightness and opacity
5. Widely accepted standard grade across paper and rubber industries

Chemical Analysis & Physical Data

Typical Specification

Parameter	Unit	Specification
TiO ₂ Content	wt%	Min. 98.0
Moisture (105°C)	wt%	Max. 0.5
pH (Aqueous Suspension)	–	6.0 – 8.0
Oil Absorption	g/100g	18 – 24
Specific Gravity	g/cm ³	3.7 – 3.9
Whiteness	–	Min. 97
Average Particle Size	micron	0.20 – 0.30
Appearance	–	White powder with blue undertone

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 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.