

TITANIUM DIOXIDE

TiOx-271

Product description

Product	Titanium Dioxide, Rutile pigment produced by the sulphate process.
Properties	The grade has a high whiteness, blue shade, excellent Dispersibility, and high gloss.
Surface treatment	Al compounds and organic substances.
Applications	TiOx-271 is widely used in the production of various paints and plastics, and recommended for internal use. Field of application: silicone paints, water-soluble paints, solvent-borne paints, printing inks, wood coatings, plastics, masterbatches, and...
Product Information	Specification: TU 2321-001-17547702-2014, ISO 591-1: R2, ASTM D 476: Type III, CAS No.: 13463-67-7, EINECS No.: 236-675-5

Physico-chemical properties

TiO ₂ , wt%	min. 94	ISO 591-1
Rutile content, %	min. 97	ASTM D 3720
Mean particle size, (d ₅₀) ₁ , μm	max. 0.27	-
Top cut, (d ₉₅) ₁ , μm	max. 0.77	-
Residue on a 45 μm sieve, wt%	max. 0.010	ISO 787-18
Specific gravity, g/cm ³	4.0	ISO 787-10
Moisture content, wt%	max. 0.5	ISO 787-2
pH of water suspension	6.5 - 9.0	ISO 787-9
Tint reducing power, arb. units	2100 - 2400	ISO 787-17
Color index	Pigment white 6	77891
Opacity, g/m ²	22 - 25	ISO 6504-3
Dispersibility, μm	max. 12	ISO 8780-4
Oil absorption, g/100g of pigment	16 - 19	ISO 787-5
Whiteness, arb. units	96.5 - 97.5	ISO 787-1
Brightness, L* (CIELAB) ²	97.0 - 98.0	ISO 787-1
Yellowness, b* (CIELAB) ²	1.6 - 2.1	ISO 787-1
Method of determination-Fritsch particle sizer analysette 22.		
Method of determination- Powder tablet.		

Storage and packing

Store in dry covered warehouses.

The warranty period of storage: 12 months from the manufacturing date.

Paper bags (25 kg), Big bag containers (500, 1000 kg).

This information is a general description of product properties and their potential fields of application. The data is based on regularly conducted analyses of their properties and also on our own and our partner's experience of their application. Since the conditions of use are beyond our control, no warranty is given or to be implied in respect of such information.