



Product Name	Titanium Dioxide	Grade	R-280
Production Standard	TU 24.1-05762329-001-2003		
International Standard	ISO 591-1:2000, ISO 9001:2008, ISO 14001:2004		

DETAILS & PHYSICAL DATA

IUPAC	Titanium dioxide, Titanium (IV) oxide	Other names	Tatani, Rutile, Anatase, Brookite
CAS	13463-67-7	EINECS	236-675-5
RTECS	XR2775000	PubChem	26042
ISO 59-1:2000	R2	ASTM D 476-00 (2005)	Type II & III
REACH	05-2114092032-60-0000	Origin	UKRAINE

APPEARANCE & APPLICATION

Titanium Dioxide R-280 is a white powder. TiO₂ R-280 is a white pigment with high brightness that is widely used in the production of solvent and water based paints; and varnishes. In order to increase light and weather resistance the Pigment is surface treated with zirconium and aluminum hydroxides, and suitable organic surface modifier to improve dispersibility in various dispersion systems. R-280 based coatings show long-lasting gloss retention and reduced chalking.

SPECIFICATION – TIO₂ GRADE R-280

Test		Result
TiO ₂ weight	%	92
Rutile content	%	98
Volatile matters	%	0.2
Water-soluble matters	%	0.1
pH (aqueous slurry)		6.5 – 8.0
Residue on sieve 45 µm [325 mesh]	% by, mass	0.005
Tint reducing power	arb. units	2100
Opacity	g/m²	25
Dispersibility (Bead Mill)	µm	11
Dispersibility (Cowles Dissolver)	µm	50
Oil absorption	g/100g	21
Refractive index		2.7
Average bulk density	(kg/m ³) _c	800
Average specific density	(kg/m ³)	3860
Average crystal size	Åµm	0.25
Durability		Good
Whiteness,	arb. units	97.1
L*a*b Colour Scale; L*	CIELAB	97.6
L*a*b Colour Scale; a*	CIELAB	-0.6
L*a*b Colour Scale; b*	CIELAB	1.6

Surface Treatment		
Aluminum hydroxide as Al ₂ O ₃		3%
Zirconium as ZrO ₂		0.4%
Organic compounds		Present

PACKING

FIBC (BIG BAG's) 500Kg & 1,000Kg

25Kg sacks (paper or plastic)

25Kg sacks (water soluble plastic)



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Valetime Group Limited

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