



<b>Product Name</b>	<b>Titanium Dioxide</b>	<b>Grade</b>	<b>R-270</b>
Production Standard	TU 24.1-05762329-001-2003		
International Standard	ISO 591-1:2000, ISO 9001:2008, ISO 14001:2004		

## DETAILS & PHYSICAL DATA

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

## APPEARANCE & APPLICATION

Titanium Dioxide R-270 is a white powder. TiO<sub>2</sub> R-270 white pigment has a high brightness and is widely used in the production of solvent and water based paints, varnishes and plastics. The pigment is surface treated with aluminum hydroxide and suitable organic surface modifier to improve dispersibility in various dispersion systems.

## SPECIFICATION – TIO<sub>2</sub> GRADE R-270

Test		Result
TiO <sub>2</sub> weight	%	93
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
<b>Tint reducing power</b>	<b>arb. units</b>	<b>2020</b>
<b>Opacity</b>	<b>g/m<sup>2</sup></b>	<b>25</b>
<b>Dispersibility (Bead Mill)</b>	<b>µm</b>	<b>11</b>
<b>Dispersibility (Cowles Dissolver)</b>	<b>µm</b>	<b>70</b>
Oil absorption	g/100g	21
Refractive index		2.7
Average bulk density	(kg/m <sup>3</sup> ) <sub>c</sub>	800
Average specific density	(kg/m <sup>3</sup> )	3830
Average crystal size	Åµm	0.25
Durability		Good
<b>Whiteness,</b>	<b>arb. units</b>	<b>97.0</b>
<b>L*a*b Colour Scale; L*</b>	<b>CIELAB</b>	<b>97.5</b>
<b>L*a*b Colour Scale; a*</b>	<b>CIELAB</b>	<b>-0.5</b>
<b>L*a*b Colour Scale; b*</b>	<b>CIELAB</b>	<b>1.9</b>

Surface Treatment		
Aluminum hydroxide as Al <sub>2</sub> O <sub>3</sub>		<b>3%</b>
Silica oxide in terms of SiO <sub>2</sub>		<b>0%</b>
Organic compounds		<b>Present</b>

## PACKING

FIBC (BIG BAG's)      500Kg & 1,000Kg      25Kg sacks (paper or plastic)      25Kg sacks (water soluble plastic)



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