



<b>Product Name</b>	<b>Titanium Dioxide</b>	<b>Grade</b>	<b>R-271</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-271 is a white powder. TiO<sub>2</sub> R-271 is a white, high dispersion pigment with high brightness and opacity, with a low yellowness index. It is widely used in the production of powder paints, solvent- and water based paints and varnishes, as well as in the production of plastics. R-271 is surface treated with aluminum hydroxide and special organic surface modifier to improve dispersive ability of the pigment in the different dispersive systems.

## SPECIFICATION – TIO<sub>2</sub> GRADE R-271

Test		Result
TiO <sub>2</sub> weight	%	95
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>2140</b>
<b>Opacity</b>	<b>g/m<sup>2</sup></b>	<b>24</b>
<b>Dispersibility (Bead Mill)</b>	<b>µm</b>	<b>11</b>
<b>Dispersibility (Cowles Dissolver)</b>	<b>µm</b>	<b>50</b>
Oil absorption	g/100g	18
Refractive index		2.7
Average bulk density	(kg/m <sup>3</sup> ) <sub>c</sub>	920
Average specific density	(kg/m <sup>3</sup> )	3980
Average crystal size	Åµm	0.25
Durability		Good
<b>Whiteness,</b>	<b>arb. units</b>	<b>96.7</b>
<b>L*a*b Colour Scale; L*</b>	<b>CIELAB</b>	<b>97.2</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>1.5</b>
<b>Surface Treatment</b>		
Aluminum hydroxide as Al <sub>2</sub> O <sub>3</sub>		<b>1.8%</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)



www.valetimegroup.com

英国威尔泰集团公司

International Trade  
Business Management  
Consultancy & Advisory Services

**Valetime Group Limited**

Registered in England # 475 9587  
VAT No. GB 975 6052 91  
EORI. No. GB 975 6052 91 000

Operating in International Business since 1989  
ISO 9001:2000 registered No. GB 12897

Disclaimer for Specifications

Every effort is made to ensure that technical specifications are accurate. However, technical specifications included herein should be used as a guideline only and not construed as commitment by any company within or supported by the VALETIME Group. All specifications are subject to change without notice.