



<b>Product Name</b>	<b>Titanium Dioxide</b>	<b>Grade</b>	<b>R-230</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 III
<b>REACH</b>	05-2114092032-60-0000	<b>Origin</b>	<b>UKRAINE</b>

## APPEARANCE & APPLICATION

Titanium Dioxide R-230 is a white powder. Ideal application as a white pigment – with a high brightness. TiO<sub>2</sub> is widely used in the production of solvents, water based paints and varnishes. The pigment surface is treated with silicon oxide, aluminum hydroxide and other suitable organic surface modifiers to improve dispersibility in various dispersion systems. Titanium Dioxide R-230 shows good light and weather resistance, ensuring long-term glass retention of coatings on exposure to all weather conditions.

## SPECIFICATION – TiO<sub>2</sub> GRADE R-230

Test		Result
TiO <sub>2</sub> weight	%	92
Rutile content	%	98
Volatile matters	%	0.2
Water-soluble matters	%	0.2
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>2060</b>
<b>Opacity</b>	<b>g/m<sup>2</sup></b>	<b>25</b>
<b>Dispersibility (Bead Mill)</b>	<b>µm</b>	<b>12</b>
<b>Dispersibility (Cowles Dissolver)</b>	<b>µm</b>	<b>70</b>
Oil absorption	g/100g	23
Refractive index		2.7
Average bulk density	(kg/m <sup>3</sup> ) <sub>c</sub>	820
Average specific density	(kg/m <sup>3</sup> )	3800
Average crystal size	Åµm	0.25
Durability		good
<b>Whiteness,</b>	<b>arb. units</b>	<b>97.2</b>
<b>L*a*b Colour Scale; L*</b>	<b>CIELAB</b>	<b>97.7</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>1.6</b>
<b>Surface Treatment</b>		
Aluminum hydroxide as Al <sub>2</sub> O <sub>3</sub>		<b>3%</b>
Silica oxide in terms of SiO <sub>2</sub>		<b>1%</b>
Organic compounds		<b>present</b>

## PACKING

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



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