



Product Name	Titanium Dioxide	Grade	R-220
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-220 is a white powder. Ideal application in the production of laminated decorative paper (wallpapers and coverings) and in organic solvent based systems for industrial & architectural coatings. The R220 white pigment is surface treated with silicon oxide and aluminum hydroxide. The product is not treated with organic additives.

SPECIFICATION – TIO₂ GRADE R-220

Test		Result
TiO ₂ weight	%	93
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	0.01
Tint reducing power	arb. units	2010
Opacity	g/m²	25
Dispersibility (Bead Mill)	µm	12
Dispersibility (Cowles Dissolver)	µm	70
Oil absorption	g/100g	20
Refractive index		2.7
Average bulk density	(kg/m ³) _c	800
Average specific density	(kg/m ³)	4100
Average crystal size	Åµm	0.25
Durability		Good
Whiteness,	arb. units	96.6
L*a*b Colour Scale; L*	CIELAB	97.2
L*a*b Colour Scale; a*	CIELAB	-0.5
L*a*b Colour Scale; b*	CIELAB	1.9
Surface Treatment		
Aluminum hydroxide as Al ₂ O ₃		2%
Silica oxide in terms of SiO ₂		0.8%
Organic compounds		None

PACKING

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



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