

Full Shade	Reduction 1:1 TiO ₂
	

Product Description	
Chemical characterization	Antimony nickel titanium rutile
Color Index	Pigment Yellow 53
Appearance	Yellow powder
C.I. No.	77788
CAS No.	8007-18-9

Technical Data			
	Unit	Value	Test Method
Water-soluble salts	[%]	<0.1	acc. to ISO 787-3
Volatile matter (105 °C)	[%]	<0.1	
pH value		7.0 - 9.0	acc. to ISO 787-9
Density	[g/cm ³]	typ. 4.5	acc. to ISO 787-10
Bulk density	[g/cm ³]	typ. 0.8	
Tamped density	[g/cm ³]	typ. 1.4	acc. to ISO 787-11
Oil absorption	[g/100g]	typ. 20	acc. to ISO 787-5
Sieve residue 45 µm	[%]	<0.1	acc. to ISO 787-7
Median D50	[µm]	typ. 0.6	acc. to ISO 13320

Fastness Properties		
Resistance to Chemicals		
	Value	Test Method
Acid	5	rating acc. to DIN EN ISO 105-A03
Alkali	5	rating acc. to DIN EN ISO 105-A03
Water	5	rating acc. to DIN EN ISO 105-A03
Butanol	5	rating acc. to DIN EN ISO 105-A03
Butylacetate	5	rating acc. to DIN EN ISO 105-A03
Xylene	5	rating acc. to DIN EN ISO 105-A03
MEK	5	rating acc. to DIN EN ISO 105-A03
White spirits	5	rating acc. to DIN EN ISO 105-A03

Acid/alkali resistance: Pigment was dipped into hydrochloric acid (10%) or soda solution (10%). Rating with gray scale: 1=poor, 5=excellent.

Solvent resistance: Pigment was dipped into solvent. Rating with gray scale: 1=poor, 5=excellent.

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	Value	Test Method
Heat resistance [°C]	600	acc. to ISO 787-21
Light fastness [full shade]	8	acc. to DIN EN ISO 16474-2/DIN EN ISO 105-B02
Light fastness [1/9 SD]	8	acc. to DIN EN ISO 16474-2/DIN EN ISO 105-B02
Weather fastness [full shade]	5	acc. to DIN EN ISO 16474-2/DIN EN ISO 20105-A02
Weather fastness [1/9 SD]	5	acc. to DIN EN ISO 16474-2/DIN EN ISO 20105-A02

Heat resistance: Tested in heat resistant coating up to 600 °C for 30 minutes.

Light Fastness: Tested in water based automotive system. Rating with 8-step wool scale: 1=poor, 8=excellent.

Weather fastness: Tested in water based automotive system. Rating with gray scale after 2000 h accelerated weathering: 1=poor, 5=excellent.

Packaging and Handling

Packaging	25 kg paper bags
Packaging	Different types of packaging are available on request

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