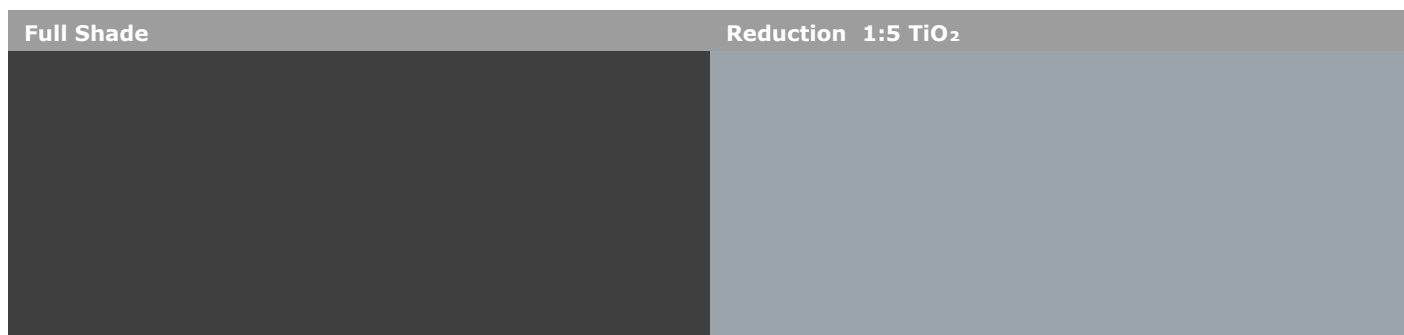


**Product Description**

Chemical characterization	Copper chromite black spinel
Color Index	Pigment Black 28
Appearance	Black powder
C.I. No.	77428
CAS No.	68186-91-4

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/cm³]	typ. 5.1	acc. to ISO 787-10
Bulk density	[g/cm³]	typ. 0.8	
Tamped density	[g/cm³]	typ. 1.5	acc. to ISO 787-11
Oil absorption	[g/100g]	typ. 17	acc. to ISO 787-5
Sieve residue 45 µm	[%]	<0.1	acc. to ISO 787-7
Median D50	[µm]	typ. 1.5	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
Coatings:	-	
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
Plastics:	-	
Heat resistance [full shade][°C]	>320	acc. to DIN EN 12877-2
Heat resistance [1:3][°C]	>320	acc. to DIN EN 12877-2
Light fastness [full shade]	8	acc. to DIN EN ISO 4892-2/DIN EN ISO 105-B02
Light fastness [1:3]	8	acc. to DIN EN ISO 4892-2/DIN EN ISO 105-B02

Heat resistance: For coatings tested in heat resistant coating up to 600 °C for 30 minutes, for plastics tested in HDPE system up to 320 °C.

Light Fastness: For coatings tested in water based automotive system, for plastics tested in LDPE 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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