

Product information

Chrome Oxide Green GN-M

Business Unit Inorganic Pigments

Edition: 2003-04-01
Replaces edition of: 2002-03-01



Type	Green pigment, micronised
Delivery form	Powder
Chemical class	Synthetic Chromium oxide Cr ₂ O ₃
Colour Index	Pigment green 17 (77288)
CAS-No.	1308-38-9

Specification

Colour values and tinting strength

Reference	Chrome Oxide Green Powder standard 0137 / 1994		
	<u>min</u>	<u>max</u>	<u>Test method</u>
Binder: test paste based on a non drying alkyd resin ⁴⁰			Similar to wet system as per DIN 55 983 (1983)
Full shade			No. 001 of 1995-04-28 ⁴¹
ΔL^*	-0.5	0.5	
Δa^*	-0.6	0.6	
Δb^*	-0.6	0.6	
ΔE_{ab}^*		1.0	
Reduced shade with titanium dioxide (1 : 5) TRONOX® R-KB-2			No. 001 of 1995-04-28 ⁴¹
Colour values after matching of the tinting strength parameter Y, i. e. $\Delta L^* = 0$			
Δa^*	-0.6	0.6	
Δb^*	-0.6	0.6	
ΔE_{ab}^*		1.0	
Relative tinting strength [%]	95	105	No. 001 of 1995-04-28 ⁴¹

Dispersibility

Binder Alkydal® F 681			
75 % in white spirit			
Grindometer values [μ m] (dissolver mill base)	10/15/50		No. 004 of 1995-05- 15 ⁴¹

Technical data

Water-soluble content [%]	0.3	DIN EN ISO 787 part 3 (1995)	
Sieve residue (0,045-mm-sieve) [%]	0.005	DIN 53 195 (1990)	
pH-value	5.0	7.0	DIN EN ISO 787 part 9 (1995)
Loss on ignition at 1000 °C, ½ h [%]	0.4	DIN 55 913 sheet 2 (1972)	
Bulk density [g/ml]	1.0	1.3	DIN EN ISO 787 part 11 (1995)

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Informative technical data (standard values)

	<u>approx.</u>	<u>Test method</u>
Content Cr ₂ O ₃ [%]	99	DIN 55 913 sheet 2 (1972)
Content SiO ₂ + Al ₂ O ₃ [%]	0.1	X-ray fluorescence
Particle shape	spherical	
Predominant particle size [µm]	0.3	Electron microscope
Oil absorption [g/100 g]	11	DIN EN ISO 787 part 5 (1995)
Density [g/ml]	5.2	DIN EN ISO 787 part 10 (1995)
Heat stability [°C]	1000	

Standard packaging 25 kg bag
 1 t bulk bag

Transport and storage

Protect against weathering. Store in a dry place and avoid extreme fluctuations in temperature. Special conditions for opened packaging: Close bags after use to prevent the absorption of moisture and contamination

Safety

The product is not classified as dangerous under the relevant EC Directives and corresponding national regulations valid in the individual EU member states. It is not dangerous according to transport regulations.

In countries outside the EU, compliance with the respective national legislation concerning the classification, packaging, labelling and transport of dangerous substances must be ensured.

The information contained in the safety data sheet must be observed. This contains information on handling, product safety and ecology.

Safety data sheet no. 002570

⁴⁰ See separate information sheet "Pigment test pastes" ⁴¹

⁴¹ Obtainable from Bayer AG, Chemicals, Business Unit Inorganic Pigments, Quality Control Laboratory, Fax + 49 21 51 88 33 28

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