

Product Information

Chrome oxide green GN

Description

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

Specification

Colour values and tinting strength			
Reference	Chromoxid grün GN		
Powder standard	2009		
Binder	Test paste based on a non drying alkyd resin ⁴⁰	Similar to wet system DIN 55 983 (1983)	
	min	max	Test method
Full shade			No. 001 of 1995-04-28 ⁴¹
Delta-L*	-0.5	0.5	
Delta-a*	-0.6	0.6	
Delta-b*	-0.6	0.6	
Delta-E _{ab} *		1.0	
Reduction with titanium dioxide Tronox ® R-KB-2 (1 : 5)			No. 001 of 1995-04-28 ⁴¹
Colour values after matching of the tinting strength parameter Y, i.e. delta L*=0			
Delta-a*	-0.6	0.6	
Delta-b*	-0.6	0.6	
Delta-E _{ab} *		1.0	
Relative tinting strength [%]	95	105	No. 001 of 1995-04-28 ⁴¹

Chrome oxide green GN Specification

Technical Data	min	max	
water-soluble content [%]		0.3	as per DIN EN ISO 787 part 3 (1995)
Sieve residue (0.045 mm sieve) [%]		0.02	as per DIN 53195 (1990)
pH value	5.0	7.0	as per DIN EN ISO 787 Teil 9 (1995)
Loss on ignition at 1000 °C, 0,25 h [%]		0.4	as per DIN ISO 4621 (1988)
Tamped density [g/ml]	0.8	1.2	as per DIN EN ISO 787 Teil 11 (1995)

Informative technical data (guide values)

			Test method
Content Cr ₂ O ₃ [%]	98.5	- 99.5	X-ray fluorescence
watersoluble Cr-VI [ppm]	<	5	Test procedure 103 ⁴¹
Content SiO ₂ + Al ₂ O ₃ [%]	~	0.1	as per DIN 55 913 Blatt 2 (1972)
Particle shape		spherical	Electron micrographs
Predominant particle size [µm]	~	0.3	Electron micrographs
Oil absorption [g/100 g]	~	11	as per DIN EN ISO 787 Teil 5 (1995)
Heat stability [°C]	~	1000	as per DIN EN 12 877-2 (2000)
Density [g/ml]	~	5.2	as per DIN EN ISO 787 Teil 10 (1995)

⁴⁰see separate information sheet "Pigment test pastes"⁴¹

⁴¹obtainable from LANXESS Deutschland GmbH, Business Unit Inorganic Pigments,
Fax +49-2151-88-9599-4139, Email ipg.product-information@lanxess.com

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Packaging

25-kg-bag
1000-kg-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.

If stored under the correct conditions (no climatic influence, kept dry and no extreme fluctuations in temperature) our products have an excellent shelf life. However, due primarily to the limited durability of the packaging, we recommend that the product is used within 5 years of the date of manufacture and our product warranty is limited to this period. During the first five years after the date of manufacture we are able to ensure compliance with our specification, provided the material has been stored correctly and the packaging materials remain undamaged.

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 safety data sheet should be observed. This contains information on handling, product safety and ecology.

Safety data sheet no.: 002570

Status of registration (not specified)

The components of this product are listed on the following inventories:

Europe: EINECS	USA: TSCA	Canada: DSL	Australia: AICS	New Zealand: NZIOC
Philippines: PICCS	Japan: METI	Korea: ECL	China: IECSC	

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LANXESS Deutschland GmbH
Business Unit
Inorganic Pigments
D-51369 Leverkusen