

Product information

COLORTHERM® Green GX

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
REACH registration no.	01-2119433951-39-0000

Specification

Colour values and tinting strength				
Standard	COLORTHERM Green GX			
Year	2005			
Binder: Test paste based on a non drying alkyd resin ⁴⁶	Full shade		Reduction with titanium dioxide (1:5) ⁴⁵	Test method No. 001 ⁴¹
Δ L*	-0.5	0.5		
Δ a*	-0.6	0.6	-0.6	0.6
Δ b*	-0.6	0.6	-0.6	0.6
Δ E _{ab} *		1.0		1.0
Relative tinting strength [%]			95	105

Specification

Technical Data	min	max	
Water soluble content [%]		0.3	DIN EN ISO 787-3:2000
Water soluble Cr(VI) [ppm]		5	PVS 103 ⁴¹
Sieve residue (0.045 mm sieve) [%]		0.1	DIN EN ISO 787-7:2009

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Informative technical data (guide values)

				Test method
Cr ₂ O ₃ content [%]	~	99		X-ray fluorescence
Loss on ignition at 1000 °C, 0.25 h [%]	<	0.4		DIN ISO 4621:1988
Particle shape		spherical		Electron micrographs
Predominant particle size [µm]	~	0.35		Electron micrographs
pH value		5 - 7		DIN EN ISO 787-9:1995
Oil absorption [g/100 g]	~	11		DIN EN ISO 787-5:1995
Tamped density [g/ml]		1.0 - 1.3		DIN EN ISO 787-11:1995
Heat stability [°C]	>	300		DIN EN 12 877-2:2000
Density [g/ml]	~	5.2		DIN EN ISO 787-10:1995

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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.

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.

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	Taiwan: NECSI

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

⁴⁵Colour values after matching of the tinting strength parameter Y, i.e. $\Delta L^*=0$

⁴⁶Similar to wet system DIN 55 983:1983