

Technical Data Sheet

Chrome Oxide Green GS

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

Specified Color Data

Colour values and tinting strength			
Standard	Chrome Oxide Green GS		
Year	2010		
Binder	Test paste based on a non drying alkyd resin		
	min	max	Test method
Full shade			No. 001 ⁴¹
Δ L*	-1.5	1.5	
Δ a*	-1.5	1.5	
Δ b*	-1.5	1.5	
Δ E* _{ab}		2.0	
Reduction with titanium dioxide (1:5)			No. 001 ⁴¹
Colour values after matching of the tinting strength parameter Y, i.e. Δ L*=0			
Relative tinting strength [%]	95	105	

Specified Technical Data

Technical Data	min	max	Test method
Water soluble Cr(VI) [ppm]		5	PVS 103 ⁴¹
Sieve residue (0.045 mm sieve) [%]		0.2	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
pH value		5	- 7	DIN EN ISO 787-9:1995
Water soluble content [%]	~	0.3		DIN EN ISO 787-3:2000
Loss on ignition at 1000 °C, 0.25 h [%]	<	0.4		DIN ISO 4621:1988
Particle shape			spherical	Electron micrographs
Predominant particle size [µm]	~	0.3		Electron micrographs
Tamped density [g/ml]		0.8	- 1.2	DIN EN ISO 787-11:1995
Density [g/ml]	~	5.2		DIN EN ISO 787-10:1995

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⁴¹ Obtainable from LANXESS Deutschland GmbH, Business Unit Inorganic Pigments, mailto: ipg.product-information@lanxess.com

Packaging

25-kg-bag
1000-kg-bulk bag

Transport and storage

General storage conditions:	Protect against weathering. Store in a dry place and avoid extreme fluctuations in temperature.
Shelf life:	<p>This product has an excellent shelf life. We recommend that this product is used within ten years of the date of manufacture and limit our product warranty to this period. During the first ten years after the date of manufacture we are able to ensure compliance with this specification, provided the material has been stored as stated above and the packaging materials remain undamaged. It must be taken into account that the packaging mean can have a shelf life considerably shorter than the one for this product. All recommendations and warnings given on the packaging must strictly be adhered to. Deviations from storage conditions can lead to undesired changes on side of the packaging materials. These succumb to ageing which may also lead to compromising their capability. Concerning their estimated service life we differentiate between the following packaging materials:</p> <p>All kinds of bags (Paper and PE) 5 years All kinds of Bulk bag 3 years</p> <p>With respect to our Bulk Bags we recommend to avoid UV-radiation because the sewing material of the lifting loops is stabilized against degradation by UV-radiation for appr. 1000 h incident sun radiation for the climate of Central Europe. A more intense sun radiation can shorten this period significantly. In cases of doubt the lifting loops must be checked thoroughly.</p>

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: ENCS + ISHL	Korea: ECL	China: IECSC	Taiwan: NECSI