



Technical Data Sheet

COLORTHERM® Green GN

Description

Туре	Green pigment
Delivery form	Powder
Chemical class Colour Index CAS-No. REACH	Chromium oxide Cr_2O_3 Pigment Green 17 (77288) 1308-38-9 01-2119433951-39

Specified Color Data

Colour values and tinting strength					
Standard	COLORTHERM Green GN				
Year	2009				
Binder: Test paste based on a non drying alkyd resin	Full shade		Reduction with titanium dioxide (1:5) 45		Test method No. 001 41
	min	max	min	max	
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	
ΔE* _{ab}		1.0		1.0	
Relative tinting strength [%]			95	105	

Specified Technical Data

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) [%]		0.06	DIN EN ISO 787-7:2009





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Informative Technical Data (guide values)

Cr ₂ O ₃ content [%]	~		99		Test method X-ray fluorescence
Loss on ignition at 1000 °C, 0.25 h [%]	<		0.4		DIN ISO 4621:1988
Particle shape Predominant particle size [µm]	~		spherio	cal	Electron micrographs 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]		0.8	-	1,2,	DIN EN ISO 787-11:1995
Heat stability [°C]	>		300		DIN EN 12877-2:1999
Density [g/ml]	~		5.2		DIN EN ISO 787-10:1995

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

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





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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.

Special conditions for opened packaging:

Close bags after use to prevent the absorption of moisture and

contamination.

Shelf life: 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:

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.

Safety

Classification 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.

Additional information: 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.

The safety data sheet is available at www.bayferrox.com.

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LANXESS Energizing Chemistry

COLORTHERM® Green GN

Information concerning food contact regulations

This product complies with the regulatory requirements listed hereafter or may be used in accordance with those.

Remark:

We can only refer to regulations dealing directly with pigments or colourants. The compliance with laws and regulations dealing with the finished article lies completely in the responsibility of the manufacturer of those articles.

Council of Europe Resolution AP(89)1

on the use of colourants in plastic materials coming into contact with food

France Circulaire n°176

consolidée du 2 décembre 1959 modifiée relative aux pigments et colorants des

matières plastiques et emballages.

Germany BfR IX

Empfehlung IX des Bundesinstituts für Risikobewertung vom 1. Juni 2019

Italy Decreto Ministeriale del 21/03/1973

Disciplina igienica degli imballaggi, recipienti, utensili, destinati a venire in contatto

con le sostanze alimentari o con sostanze d'uso personale.

Netherlands Warenwetregeling verpakkingen en gebruiksartikelen:

Regeling van de Minister van Volksgezondheid, Welzijn van 14 maart 2014, kenmerk 328583-117560-VGP, houdende vaststelling van de Warenwetregeling verpakkingen en gebruiksartikelen die in contact komen met levensmiddelen.

Spain Real Decreto 847/2011,

de 17 de junio, por el que se establece la lista positiva de sustancias permitidas para la fabricación de materiales poliméricos destinados a entrar en contacto con

los alimentos.

Switzerland **817.023.21**

Verordnung des EDI über Materialien und Gegenstände, die dazu bestimmt sind, mit Lebensmitteln in Berührung zu kommen (Bedarfsgegenständeverordnung)

vom 16. Dezember 2016 (Stand am 1. Dezember 2019)

Australia AS 2070-1999

Plastic materials for food contact use

Brazil RDC Nº 52

Dispõe sobre corantes em embalagens e equipamentos plásticos destinados a

estar em contato com alimentos.

China Chromium oxides are listed in **GB** 9685-2016 with FCA number 0478. For detailed

information about limitations please refer to the standard itself.

Japan This product complies with **Japanese Food sanitation law** amended in June 2020.

As there is no specific positive list for pigments the JHOSPA list for pigments

remains valid until further announcement.

MERCOSUR GMC/RES. Nº 15/10

GMC/RES. Nº 15/10
REGLAMENTO TÉCNICO MERCOSUR SOBRE COLORANTES EN ENVASES Y

EQUIPAMIENTOS PLÁSTICOS DESTINADOS A ESTAR EN CONTACTO CON

ALIMENTOS

USA FDA 21 CFR § 178.3297

(Colorants for polymers)





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Status of Registration (not specified)

The components of this product are listed on the following inventories:					
Europe:	USA:	Canada:	Australia:	New Zealand:	
EINECS	TSCA	DSL	AICS	NZIoC	
Philippines: PICCS	Japan:	Korea:	China:	Taiwan:	
	ENCS + ISHL	ECL	IECSC	NECSI	