



Product Information

Bayferrox® 360

Description

Туре	Black pigment
Delivery form	Powder
Chemical class Colour Index CAS-No. REACH registration no.	Synthetic iron oxide Fe₃O₄ Pigment black 11 (77499) 1317-61-9 01-2119457646-28-0000

Specified Color Data

Colour values and tinting strength			
Standard	Bayferrox 360	0	
Year	2013		
Binder: Test paste based on a non drying alkyd resin ⁴⁶	Reduction ⁴⁵ with titanium dioxide (1:5)		Test method No. 001 ⁴¹
Δa^*	-0.7	0.7	
Δb^*	-0.9	0.9	
ΔE^*_{ab}		1.0	
Binder: Barytes Relative tinting strength [%]	95	105	Test method No. 003 41

Specified Technical Data

Technical Data	min	max	Test method
Water-soluble content [%]		0.5	similar to DIN EN ISO 787-3:2000
Sieve residue (0.045 mm sieve) [%]		0.1	DIN EN ISO 787-7:2009
pH value	4	8	DIN EN ISO 787-9:1995
Total chlorine content [%]		0.10	Microcoulometry ⁴¹



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Informative Technical Data (guide values)

Fe₃O₄ content [%] ⁵³	>	99.5	Test method Information about the determination of iron oxide ⁴¹
Loss on ignition at 1000 °C, 0.5 h [%] $^{\circ}$	<	1.0	DIN 55913-2:1972
Moisture content (after production) [%]	<	1.0	DIN EN ISO 787-2:1995
Particle shape		spherical	Electron micrographs
Predominant particle size [µm]	~	0.3	Electron micrographs
Tamped density [g/ml]		1.2 - 1.6	similar to DIN EN ISO 787-11:1995
Density [g/ml]	~	4.6	DIN EN ISO 787-10:1995

⁵ In iron oxide black pigments, a chemical transformation (oxidation) is also recorded when determing the loss on ignition.

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

⁴⁶ Similar to wet system DIN 55983:1983

⁵³ Minor elements may arise from the raw materials used. However, these are firmly bound to the crystal lattice as ions.



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Packaging

The product is available in sacks or bulk bags. For further information please ask your local contact or send an enquiry by e-mail to mailto: ipg.product-information@lanxess.com

Transport and Storage

General storage conditions:	Protect against weathering. Store in a dry place and avoid extreme fluctuations in temperature.
Maximum storage temperature:	When storing large quantities of pigments, temperatures above 80 °C must be avoided as an alteration (oxidation) of the pigment may be caused by heat.
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 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:
	All kinds of bags (Paper and PE)5 years All kinds of Bulk bag
	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.		
	In countries outside the EU, compliance with the respective national legislation concerning the classification, packaging, labelling and transport of dangerous substances must be ensured.		
Additional Information	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.de.		



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Information concerning food contact regulations (not specified)

This product complies with the purity requirements of the following legal regulations or is listed on the mentioned positive lists.

General remark:

As the food contact regulations of each country may differ, it is the responsibility of the manufacturer of the finished articles to ensure compliance with the respective country's regulation (e.g. migration or extraction limits).

European Union (Council of Europe)	Resolution AP (89) 1 on the use of colourants in plastic materials coming into contact with food
Belgium	Koninklijk besluit van 11 mei 1992 betreffende materialen en voorwerpen bestemd om met voedingsmiddelen in aanraking te komen
Germany	Empfehlung IX "Farbmittel zum Einfärben von Kunststoffen und anderen Polymeren für Bedarfsgegenstände" des Bundesinstituts für Risikobewertung (BfR) vom 01.01.2010
France	Circulaire n°176 consolidée du 2 décembre 1959 modifiée relative aux pigments et colorants des matières plastiques et emballages.
Netherlands	Warenwetregeling verpakkingen en gebruiksartikelen van 14 maart 2014
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.
Australia	AS 2070-1999
USA	According to § 178.3297 (Colorants for Polymers)



LANXESS Energizing Chemistry

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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:	Japan:	Korea:	China:	Taiwan:	
PICCS	METI	ECL	IECSC	NECSI	

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