

Product Information

Bayoxide® E BL 31

Description

Type	Technical Oxide
Delivery form	Powder
Chemical class	Synthetic iron oxide Fe ₃ O ₄
CAS-No.	1317-61-9
REACH registration no.	01-2119457646-28-0000

Specification

Colour values and tinting strength			
Standard	Bayoxide E BL 31		
Year	1986		1986
Binder	Test paste based on a non drying alkyd resin		Similar to wet system DIN 55 983 (1983) No. 001 of 1995-04-28 ⁴¹
Reduction with titanium dioxide Tronox® R-KB-2 (1 : 5)			
Colour values after matching of the tinting strength parameter Y, i.e. delta L*=0			
Delta-E _{ab} *		1.0	
Binder	Barytes		
Relative tinting strength [%]	95	105	No. 003 of 1994-03-11 ⁴¹

Specification

Technical Data	min	max	Test method
water-soluble content [%]		0.7	as per DIN EN ISO 787-3:1995
Sieve residue (0,045 mm sieve) [%]		0.05	DIN 53195:1990
pH value	4.0	8.0	as per DIN EN ISO 787-9:1995

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Informative technical data (guide values)

			Test method
Fe ₃ O ₄ Content [%] ⁵³	>	96.8	information about the determination of iron oxide ⁴¹
Loss on ignition at 1000 °C, 0.5 h [%] ⁵	<	4.0	similar to DIN 55 913-2:1972
Moisture content (after production) [%]	<	3	as per DIN EN ISO 787-2:1995
Particle shape		spherical	Electron micrographs
Predominant particle size [µm]	~	0.5	Electron micrographs
Oil absorption [g/100 g]	~	21	as per DIN EN ISO 787-5:1995
Tamped density [g/ml]		1.0 - 1.4	as per DIN EN ISO 787-11:1995
Density [g/ml]	~	4.6	as per DIN EN ISO 787-10:1995

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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](mailto:ipg.product-information@lanxess.com)

Transport and storage

Protect against weathering. Store in a dry place and avoid extreme fluctuations in 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.

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.

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.de.

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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

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

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

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