



## **Product Information**

## Bayferrox® 318 MB

## **Description**

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

## **Specified Color Data**

Colour values and tinting strength					
Standard	Bayferrox	Bayferrox 318 MB			
Year	1997				
Binder: Test paste based on a non drying alkyd resin 46	Reduction with titaning	um dioxide (1:5)	Test method No. 001 41		
Δ a*	-0.7	0.7			
∆ b*	-0.9	0.9			
Δ E* <sub>ab</sub>		1.0			
Relative tinting strength [%]	95	110			

## **Specified Technical Data**

Dispersibility	min	max	Test method
Binder Alkydal F 681 75 % in white spirit			
Fineness of grind [µm]		30/50/75	No. 004 <sup>41</sup>
Technical Data	min	max	Test method
Water-soluble content [%]		0.7	similar to DIN EN ISO 787-3:2000
Sieve residue (0.045 mm sieve) [%]		0.005	DIN EN ISO 787-7:2009
pH value	4.0	8.0	DIN EN ISO 787-9:1995







#### **Informative Technical Data (guide values)**

					Test method
Fe <sub>3</sub> O <sub>4</sub> content [%] <sup>53</sup>	>		96.8		Information about the determination of iron oxide 41
Loss on ignition at 1000 °C, 0.5 h [%] <sup>5</sup>	<	3.5			DIN 55913-2:1972
Moisture content (after production) [%]	<		2.5		DIN EN ISO 787-2:1995
Particle shape		spherical			Electron micrographs
Predominant particle size [µm]	~		0.2		Electron micrographs
Oil absorption [g/100 g]	~		21		DIN EN ISO 787-5:1995
Tamped density [g/ml]		0.9	-	1.3	similar to DIN EN ISO 787-11:1995
Density [g/ml]	~		4.6		DIN EN ISO 787-10:1995

<sup>&</sup>lt;sup>5</sup> In iron oxide black pigments, a chemical transformation (oxidation) is also recorded when determing the loss on ignition.

<sup>&</sup>lt;sup>41</sup> Obtainable from LANXESS Deutschland GmbH, Business Unit Inorganic Pigments, mailto: ipg.product-information@lanxess.com

<sup>&</sup>lt;sup>45</sup> Colour values after matching of the tinting strength parameter Y, i.e. Δ L\*=0

<sup>&</sup>lt;sup>46</sup> Similar to wet system DIN 55983:1983

<sup>&</sup>lt;sup>53</sup> Minor elements may arise from the raw materials used. However, these are firmly bound to the crystal lattice as ions.







#### **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 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.

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.







# Status of Registration (not specified)

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