



Technical Data Sheet

BAYFERROX® 504

Description

Туре	Red pigment
Delivery form	Powder
Chemical class Colour Index	Synthetic iron oxide α - Fe ₂ O ₃ Pigment red 101 (77491)
CAS-No.	1309-37-1
REACH registration no.	01-2119457614-35

Specified Color Data

Colour values and tinting strength					
Standard	Bayferro	ox 504			
Year	2018				
Binder: Test paste based on a non drying alkyd resin	Full shade		Reduction ⁴⁵ with titanium dioxide (1:5)		Test method No. 001 41
	min	max	min	max	
Δ L*	-0.5	0.5			
Δ a*	-0.8	0.8	-0.8	0.8	
Δ b *	-0.8	0.8	-0.8	0.8	
Δ E $^{\star}_{ab}$		1.0		1.0	
Relative tinting strength [%]			95	105	

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) [%]		0.05	DIN EN ISO 787-7:2009
pH value	3.0	7.0	DIN EN ISO 787-9:1995





Informative Technical Data (guide values)

a - Fe ₂ O ₃ content [%] ⁵³	>	98.9	Test method Information about the determination of iron oxide 41
Loss on ignition at 1000 °C, 0.5 h [%]	<	4.0	DIN 55913-2:1972
Moisture content (after production) [%]	<	1.0	DIN EN ISO 787-2:2021
Particle shape		spherical	Electron micrographs
Predominant particle size [µm]	~	0.1	Electron micrographs
Oil absorption [g/100 g]	~	20	DIN EN ISO 787-5:1995
Tamped density [g/ml]	~	1.0	similar to DIN EN ISO 787-11:1995
Density [g/ml]	~	5.0	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

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







Packaging

Shelf life:

Grades are delivered in different packaging materials. Please ask your local contact about the packaging for the grade in question or send an enquiry 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: During storage, temperatures above 80 ° C are to be avoided since

irreversible changes in the color of the pigment can occur.

Special conditions for opened Close bags after use to prevent the absorption of moisture and contamination.

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

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.com.

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Status of Registration

The components of this product are listed on the following inventories:

Europe:USA:Canada:Australia:New Zealand:EINECSTSCADSLAICSNZIOC

Philippines: Japan: Korea: China: Taiwan: PICCS ENCS + ISHL ECL IECSC NECSI

LANXESS (Ningbo) Pigments