



Technical Data Sheet

BAYFERROX® 920

Description

Туре	Yellow pigment
Delivery form	Powder
Chemical class Colour Index	Synthetic iron hydroxide α - FeOOH Pigment yellow 42 (77492)
CAS-No.	51274-00-1
REACH registration no.	01-2119457554-33

Specified Color Data

Colour values and tinting strength					
Standard	Bayferro	ox 920			
Year	2016				
Binder: Test paste based on a non drying alkyd resin	Full sha	Full shade		on ⁴⁵ nium dioxide	Test method No. 001 41
Δ L*	-0.3	0.5			
∆ a*	-1.0	1.0	-1.0	1.0	
∆ b*	-1.3	1.3	-1.3	1.3	
Δ E* _{ab}		1.5		1.5	
Relative tinting strength [%]			95	108	
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) [%]		0.04	DIN EN ISO 787-7:2009
pH value	3.5	7.5	DIN EN ISO 787-9:1995





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Informative Technical Data (guide values)

a - FeOOH content [%] 53	>	99.4			Test method Information about the determination of iron oxide 41
Loss on ignition at 1000 °C, 0.5 h [%] ³	<	14.0			DIN 55913-2:1972
Moisture content (after production) [%]	<	0.5		.5	DIN EN ISO 787-2:1995
Particle shape		rod-shaped		ped	Electron micrographs
Predominant particle size [µm]		0.1	Χ	0.6	Electron micrographs
Oil absorption [g/100 g]	~		60		DIN EN ISO 787-5:1995
Tamped density [g/ml]		0.2	-	0.6	similar to DIN EN ISO 787-11:1995
Density [g/ml]	~		4.0		DIN EN ISO 787-10:1995

³ Iron oxide yellow pigments contain a large amount of chemically bound water that is also recorded

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

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.



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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 120 ° C are to be avoided since a change to the pigment can occur due to dehydration.

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

packaging: 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 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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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

Circulaire n°176 France

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

matières plastiques et emballages.

BfR IX Germany

Empfehlung IX des Bundesinstituts für Risikobewertung vom 1. Juni 2019

Decreto Ministeriale del 21/03/1973 Italy

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)

AS 2070-1999 Australia

Plastic materials for food contact use

RDC Nº 52 Brazil

Dispõe sobre corantes em embalagens e equipamentos plásticos destinados a

estar em contato com alimentos.

Yellow iron oxides are listed in GB 9685-2016 with FCA numbers 0460 & 0461. For China

detailed information about limitations please refer to the standard itself.

JHOSPA 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

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)







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