



Product Information

Bayferrox® 610

Description

Туре	Brown pigment
Delivery form	Powder
Chemical class Colour Index CAS-No. REACH	Synthetic iron oxide (mixture) Pigment red 101 (77491) / Pigment black 11 (77499) / Pigment yellow 42 (77492) 1309-37-1 / 1317-61-9 / 51274-00-1 all components are registered

Specification

Colour values and tinting strength					
Standard	Bayferro	ox 610			
Year	2000				
Binder: Test paste based on a non drying alkyd resin 46	Full sha	ade	Reduction with tital (1:5)	on ⁴⁵ nium dioxide	Test method No. 001 41
Δ L*	-0.5	0.5			
Δ a *	-1.2	1.2	-1.2	1.2	
Δ b *	-1.3	1.3	-1.3	1.3	
$\Delta E_{ab}^{ \star}$		1.5		1.5	
Binder: Barytes Relative tinting strength [%]			95	105	Test method No. 003 41

Specification

Technical Data	min	max	Test method
water-soluble content [%]		0.5	DIN EN ISO 787-3:2000
Sieve residue (0.045 mm sieve) [%]		0.1	DIN EN ISO 787-7:2009
pH value	4	7	DIN EN ISO 787-9:1995







Informative technical data (guide values)

					Test method
iron oxide Content [%] 53	>		97.8		information about the determination of iron oxide 41
Loss on ignition at 1000 °C, 0.5 h [%] ⁸	<		6.0		similar to DIN 55913-2:1972
Moisture content (after production) [%]	<		2.5		DIN EN ISO 787-2:1995
Particle shape			irregu	ar	Electron micrographs
Predominant particle size [µm]		0.1	-	0.6	Electron micrographs
Oil absorption [g/100 g]	~		27		DIN EN ISO 787-5:1995
Tamped density [g/ml]		0.6	-	1.0	DIN EN ISO 787-11:1995
Density [g/ml]	~		4.5		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

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 120 °C must be avoided as an alteration (dehydratisation and 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:	If stored under the correct conditions (no climatic influence, kept dry and no extreme fluctuations in temperature) our products have an excellent shelf life. However, due primarily to the limited durability of the packaging, we recommend that the product is used within 5 years of the date of manufacture and our product warranty is limited to this period. During the first five years after the date of manufacture we are able to ensure compliance with our specification, provided the material has been stored correctly and the packaging materials remain undamaged.

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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Bayferrox® 610

Information concerning European 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).

Resolution AP (89) 1 on the use of colorants in plastic materials European Union (Council of Europe) coming into contact with food. (requirements correspond with those of BfR Recommendation IX.) Recommendation IX of the Federal Institute for Risk Assessment Germany (BfR) dated 01. Jan 2010 Belgium Koninklijk Besluit dated 11.5.1992; Warenwetgeving (1), aanvulling nr. 18 - September 1992 Circulaire 176 dated 2.12.1959, published in the Journal Officiel of France 30.12.1959 incl. amendments. Netherlands Warenwet/Regeling Verpakkingen - en gebruiksartikelenbesluit; Uitvoeringsvoorschriften CIII-55, entered into force on 21.8.1991. As well as defining the content of soluble heavy metals in pigments, this regulation specifies maximum permissible migration values for the pigmented articles. Resolucion dated 4.1L1982 (BOE 282 of 24.11.1982) in accordance with Article 5 of Royal Decree 211/1992 of March 5, Spain 1992. All colorants are permitted which conform with the migration values defined in Appendix III of the Resolucion. Pigments used in foodcontact applications must be notified to the Health Ministry. All Bayferrox pigments which satisfy BgVV Recommendation IX can be used in Spain.

Information concerning Non-European 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)

Australia Australian Standard 2070.6 (1984)
USA According to § 178.3297
(Colorants for Polymers)







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	

 $^{^{\}rm 8}$ In iron oxide brown pigments, a chemical transformation (dehydration and / or oxidation) is also recorded when determining the loss on ignition.

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

 $^{^{45}}$ Colour values after matching of the tinting strength parameter Y, i.e. Δ L*=0

⁴⁶ similar to wet system DIN 55983:1983

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