



Product Information

Bayferrox® 912 LOM

Description

Type Yellow pigment

Delivery form Powder

Chemical class Synthetic iron hydroxide α - FeOOH
Colour Index Pigment yellow 42 (77492)

CAS-No. 51274-00-1

REACH registration no. 01-2119457554-33-0000

Specified Color Data

| Colour values and tinting strength | | | | | |
|---|------------|------------|---|-----|---------------------------|
| Standard | Bayferr | ox 912 LOM | | | |
| Year | 2004 | | | | |
| Binder: Test paste based on a non drying alkyd resin 46 | Full shade | | Reduction ⁴⁵ with titanium dioxide (1:5) | | Test method No. 001 41 |
| | min | max | min | max | |
| Δ L* | -0.4 | 0.4 | | | |
| ∆ a* | -0.8 | 8.0 | -0.6 | 0.6 | |
| ∆ b* | -0.9 | 0.9 | -0.6 | 0.6 | |
| Δ C_{ab}^* | -0.8 | 8.0 | -0.6 | 0.6 | |
| ΔH_{ab}^{*} | -0.8 | 0.8 | -0.6 | 0.6 | |
| $\Delta E_{ab}^{\ \ \star}$ | | 1.0 | | 0.8 | |
| Relative tinting strength [%] | | | 97 | 103 | |

Specified Technical Data

| Dispersibility | min | max | Test method |
|--|-----|----------|-----------------------|
| Binder Alkydal F 681 75 % in white spirit | | | |
| Fineness of grind [µm] (dissolver mill base) | | 20/40/50 | No. 004 ⁴¹ |
| Technical Data | min | max | Test method |
| water-soluble content [%] | | 0.5 | DIN EN ISO 787-3:2000 |
| Sieve residue (0.045 mm sieve) [%] | | 0.008 | 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 |
|---|---|-----|--------|-----|--|
| a - FeOOH content [%] 53 | > | | 99.2 | | information about the determination of iron oxide 41 |
| Loss on ignition at 1000 °C, 0.5 h [%] ³ | < | | 13 | | similar to DIN 55913-2:1972 |
| Moisture content (after production) [%] | < | | 0.5 | | DIN EN ISO 787-2:1995 |
| Particle shape | | | acicul | ar | Electron micrographs |
| Oil absorption [g/100 g] | ~ | | 25 | | DIN EN ISO 787-5:1995 |
| Tamped density [g/ml] | | 0.6 | - | 0.9 | DIN EN ISO 787-11:1995 |
| Density [g/ml] | ~ | | 4.0 | | DIN EN ISO 787-10:1995 |







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:

Shelf life:

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 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. |

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LANXESS Energizing Chemistry

Bayferrox® 912 LOM

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).

| European Union (Council of Europe) | Resolution AP (89) 1 on the use of colorants in plastic materials coming into contact with food. (requirements correspond with those of BfR Recommendation IX.) | |
|-------------------------------------|--|--|
| Belgium | Koninklijk Besluit dated 11.5.1992; Warenwetgeving (1), aanvulling nr. 18 - September1992 | |
| Germany | Recommendation IX of the Federal Institute for Risk Assessment (BfR) dated 01. Jan 2010 | |
| France | Circulaire 176 dated 2.12.1959, published in the Journal Officiel o 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. | |
| 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. | |

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)

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|--|--|--|--|--|--|
| Australia | Australian Standard 2070.6 (1984) | | | | |
| Brazil | In compliance with Resolução No. 52 of Nov.26.2010 for coloring utensils and equipment intended to come into contact with food and beverages. | | | | |
| Japan | Complies with JHOSPA*-Positive list for Colorants in plastics and other purity requirements * (JHOSPA = Japan Hygienic Olefin and Styrene Plastics Association) | | | | |
| 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 | |

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

LANXESS Indústria de Produtos

⁴¹obtainable 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

⁴⁶similar 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