

Technical Data Sheet

YELLOW OXIDE 920

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 |

Specification

| Colour values and tinting strength | | | | |
|--|-------------------|------------|--|--|
| Standard | YELLOW OXIDE 920 | | | |
| Year | 2015 | | | |
| Binder: Test paste based on a non drying alkyd resin | Full shade | | Reduction ⁴⁵ with titanium dioxide (1:5) | |
| | min | max | min | max |
| ΔE_{ab}^* | | 1.5 | | 1.5 |
| Binder: Barytes Relative tinting strength [%] | | | 95 | 105 |
| | | | | Test method No. 003 ⁴¹ |

Specification

| Technical Data | min | max | Test method |
|------------------------------------|-----|-----|-----------------------|
| Sieve residue (0.045 mm sieve) [%] | | 0.3 | DIN EN ISO 787-7:2009 |
| pH value | 2.5 | 7.0 | DIN EN ISO 787-9:1995 |

Informative technical data (guide values)

| | | | |
|---|---|-----------|---|
| α - FeOOH content [%] ⁵³ | > | 99.1 | Test method information about the determination of iron oxide ⁴¹ similar to DIN 55913-2:1972 |
| Loss on ignition at 1000 °C, 0.5 h [%] ³ | < | 15 | |
| Moisture content (after production) [%] | < | 1.0 | DIN EN ISO 787-2:1995 |
| Particle shape | | acicular | Electron micrographs |
| Predominant particle size [μ m] | | 0.1 x 0.8 | Electron micrographs |
| Water-soluble content [%] | < | 0.5 | DIN EN ISO 787-3:2000 |
| Oil absorption [g/100 g] | ~ | 30 | DIN EN ISO 787-5:1995 |
| Tamped density [g/ml] | ~ | 0.6 | DIN EN ISO 787-11:1995 |
| Density [g/ml] | ~ | 4.0 | DIN EN ISO 787-10:1995 |

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

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

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

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

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Packaging

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 packaging: | Close bags after use to prevent the absorption of moisture and contamination. |
| Shelf life: | <p>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:</p> <p>All kinds of bags (Paper and PE) 5 years All kinds of Bulk bag 3 years</p> <p>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.</p> |

Safety

| | |
|------------------------|--|
| Classification | <p>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.</p> <p>In countries outside the EU, compliance with the respective national legislation concerning the classification, packaging, labelling and transport of dangerous substances must be ensured.</p> |
| Additional Information | <p>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.</p> |

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Status of registration (not specified)

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