

## Product Information

### Bayferrox® 120 N

#### Description

|                        |   |
|------------------------|---|
| Type                   | Red pigment   |
| Delivery form          | Powder  |
| Chemical class         | Synthetic iron oxide $\alpha$ - $\text{Fe}_2\text{O}_3$ |
| Colour Index           | Pigment red 101 (77491)                                 |
| CAS-No.                | 1309-37-1   |
| REACH registration no. | 01-2119457614-35-0000                                   |

#### Specification

| Colour values and tinting strength   |                   |     |   |   |
|--|-------------------|-----|---|---|
| Standard   | Bayferrox 120 N   |     |   |   |
| Year   | 2009              |     |   |   |
| <b>Binder:</b><br>Test paste based on a non drying alkyd resin <sup>46</sup> | <b>Full shade</b> |     | <b>Reduction</b><br>with titanium dioxide<br>Tronox® R-KB-2 (1 : 5) <sup>45</sup> | <b>Test method</b><br>No. 001 of 1995-04-28 <sup>41</sup> |
| $\Delta L^*$   | -0.5              | 0.5 |   |   |
| $\Delta a^*$   | -1.0              | 1.0 | -1.0  | 1.0   |
| $\Delta b^*$   | -1.2              | 1.2 | -1.3  | 1.3   |
| $\Delta E_{ab}^*$  |                   | 1.5 |   | 1.5   |
| Binder: Barytes<br>Relative tinting strength [%]                             |                   |     | 95  | 105   |
|  |                   |     |   | <b>Test method</b><br>No. 003 of 1994-03-11 <sup>41</sup> |

#### Specification

| Technical Data                     | min | max  | Test method                  |
|------------------------------------|-----|------|------------------------------|
| water-soluble content [%]          |     | 0.5  | as per DIN EN ISO 787-3:1995 |
| Sieve residue (0.045 mm sieve) [%] |     | 0.06 | as per DIN 53195:1990        |
| pH value                           | 4   | 8    | as per DIN EN ISO 787-9:1995 |

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### Informative technical data (guide values)

|  |   |           |  | Test method   |
|--|---|-----------|--|---|
| α - Fe <sub>2</sub> O <sub>3</sub> Content [%] <sup>53</sup> | > | 97.1      |  | information about the determination of iron oxide <sup>41</sup> |
| Loss on ignition at 1000 °C, 0.5 h [%]                       | < | 0.6       |  | similar to DIN 55 913:1972, sheet 2                             |
| Moisture content (after production) [%]                      | < | 0.5       |  | as per DIN EN ISO 787-2:1995                                    |
| Particle shape   |   | spherical |  | Electron micrographs  |
| Predominant particle size [µm]                               | ~ | 0.11      |  | Electron micrographs  |
| Oil absorption [g/100 g]                                     | ~ | 28        |  | as per DIN EN ISO 787-5:1995                                    |
| Tamped density [g/ml]  |   | 0.7 - 1.1 |  | as per DIN EN ISO 787-11:1995                                   |
| Density [g/ml]   | ~ | 5.0       |  | as per DIN EN ISO 787-10:1995                                   |

## Bayferrox® 120 N

### 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](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.  |
| 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.  |
| Additional Information | In countries outside the EU, compliance with the respective national legislation concerning the classification, packaging, labelling and transport of dangerous substances must be ensured.<br>The safety data sheet should be observed. This contains information on handling, product safety and ecology.<br>The safety data sheet is available at <a href="http://www.bayferrox.de">www.bayferrox.de</a> . |

## Bayferrox® 120 N

### Status of registration (not specified)

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

<sup>41</sup>obtainable from LANXESS Deutschland GmbH, Business Unit Inorganic Pigments, Fax +49-2151-88-9599-4139, mailto: [ipg.product-information@lanxess.com](mailto:ipg.product-information@lanxess.com)

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

<sup>46</sup>similar to wet system DIN 55983:1983

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