

<b>Type</b>	Red pigment, micronised
<b>Delivery form</b>	Powder
<b>Chemical class</b>	Synthetic iron oxide $\alpha$ -Fe <sub>2</sub> O <sub>3</sub>
<b>Colour Index</b>	Pigment red 101 (77491)
<b>CAS No.</b>	1309-37-1

## Specification

### Colour values and tinting strength

Reference Bayferrox 130 M  
Powder standard 1997

Binder Test paste based on  
Similar to wet system as per DIN 55 983 (1983) Sacolyd<sup>®</sup> L 640<sup>40</sup>

Full shade	$\Delta L^*$	min -0.4	max 0.4
	$\Delta a^*$	min -0.8	max 0.8
	$\Delta b^*$	min -0.9	max 0.9
	$\Delta E_{Lab}^*$		max 1.0

Pigment test method no. 001 of 1995-04-28<sup>41</sup>

Brightening with titanium dioxide (1 : 5) TRONOX<sup>®</sup> R-KB-2

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

$\Delta a^*$	min -1.0	max 1.0
$\Delta b^*$	min -1.2	max 1.2
$\Delta E_{ab}^*$		max 1.5

Pigment test method no. 001 of 1995-04-28<sup>41</sup>

Relative tinting strength min 95 % max 105 %

Pigment test method no. 001 of 1995-04-28<sup>41</sup>

### Dispersibility

Binder Alkydal<sup>®</sup> F 681  
75 % in white spirit

Grindometer values max 15 / 30 / 40  $\mu$ m

(dissolver mill base)

Pigment test method no. 004 of 1995-05-15<sup>41</sup>

<sup>40</sup> See separate information sheet "Pigment test pastes"<sup>41</sup>

<sup>41</sup> Obtainable from Bayer AG, LS-T2, FEO Laboratory & Production Control, Fax: + 49 2151 88 3328

## Specification (continued)

### Technical data

Water-soluble content max 0.4 %

Test method: DIN EN ISO 787 Part 3 (1995)

Sieve residue (0.045 mm sieve) max 0.002 %

Test method: DIN 53 195 (1990)

pH value min 5.0 max 8.0

Test method: DIN EN ISO 787 Part 9 (1995)

## Informative technical data (standard values)

Fe<sub>2</sub>O<sub>3</sub> min 95 % max 97 %

Test method: DIN 55 913 Sheet 2 (1972)

SiO<sub>2</sub> + Al<sub>2</sub>O<sub>3</sub> max 3.0 %

Test method: DIN 55 913 Sheet 2 (1972)

Loss on ignition at 1,000°C, ½ h max 0.6 %

Test method: DIN 55 913 Sheet 2 (1972)

Moisture content (after production) max 0.5 %

Test method: DIN EN ISO 787 Part 2 (1995)

Particle shape spherical

Predominant particle size max 0.17 µm

Electron microscope

Oil absorption approx. 26 g/100 g

Test method: DIN EN ISO 787 Part 3 (1995)

Tamped density min 0.7 g/ml max 1.1 g/ml

Test method: DIN EN ISO 787 Part 11 (1995)

Density approx. 5.0 g/ml

Test method: DIN EN ISO 787 Part 10 (1995)

---

<b>Sales packaging</b>	Standard packaging units 25 kg bag 1 t bulk bag
<b>Transport and storage</b>	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.
<b>Safety</b>	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. The safety data sheet should be observed. This contains information on handling, product safety and ecology. Safety data sheet no. 000829/06

---

BAYER AG  
Coatings, Colorants and  
Special Raw Materials Business Group  
D-51368 Leverkusen

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

