

# TECHNICAL DATA SHEET

## Iron Oxide Red 4110

---

<b>Edition of</b>	2012-12-19
<b>Type</b>	Red Pigment
<b>Molecular formula</b>	Fe <sub>2</sub> O <sub>3</sub>
<b>Molecular weight</b>	159.69
<b>Delivery Form</b>	Powder
<b>Chemical Class</b>	Synthetic Iron Oxide alpha – Fe <sub>2</sub> O <sub>3</sub>
<b>Color Index</b>	Pigment Red 101 (77491)
<b>CAS No.</b>	1309-37-1
<b>Use ReCommedation</b>	Coatings, Construction, Plastic

---

### COLOR VALUES AND TINTING STRENGTH

Reference			Standard: DIN 6174
	<b><u>Min</u></b>	<b><u>Max</u></b>	<b><u>Test Method</u></b>
Reduction with titanium dioxide (1:5)	R-706		No.038, 2009-08-01
$\Delta L^*$	-0.7	0.7	
$\Delta a^*$	-0.7	0.7	
$\Delta b^*$	-0.7	0.7	
$\Delta E^*_{ab}$		1.0	
Binder	R-05		
Relative tinting strength [%]	98.0	103.0	No. 038, 2009-08-01

---

### TECHNICAL DATA

	<b><u>Min</u></b>	<b><u>Max</u></b>	<b><u>Test Method</u></b>
Fe <sub>2</sub> O <sub>3</sub>	95		DIN 55913-2
Water soluble substances [%]		0.5	DIN ISO 787-3
Moisture at 105°C [%]		1.0	DIN ISO 787-2
Oil absorption approx [%]	25		DIN ISO 787-5
Sieve residue on 0.045mm mesh [%]		0.05	DIN 53195
Tinting strengths vs. standard range	98	103	DIN 6174
$\Delta E$		1.0	DIN 6174
PH Value	5.0	7.0	DIN ISO 787-9
Loss on Heating 1000°C 1/2h		4.0	DIN 55913-2
Density		5.0	DIN ISO 787-10
Tamped Density		1.0	DIN ISO 787-11
Particle Shape	Spherical		Electron Micrographs

---

**STANDARD PACKAGING** 25kg/bag

---

**TRANSPORT AND STORAGE**

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.

---

**SAFETY**

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, labeling and transport of dangerous substances must be ensured.

The information contained in the safety data sheet should be observed.

This contains information on handling, product safety and ecology.