

48100 Iron Oxide Red 110 M light PR 101

Product Information

Type:	Red pigment, micronized
Delivery form:	Powder
Chemical class:	Synthetic Iron oxide α -Fe ₂ O ₃
Color Index:	Pigment red 101 (77491)
CAS No.:	1309-37-1

Specification

Color values and tinting strength

	<u>min.</u>	<u>max.</u>	<u>Test method</u>
Binder: test paste based on a non drying alkyd resin			Similar to wet system as per DIN 55 983 (1983)
Full shade			No. 001 of 1995-04-28
ΔL^*	-0.4	0.4	
Δa^*	-0.8	0.8	
Δb^*	-0.9	0.9	
ΔC^*	-0.8	0.8	
ΔH^*	-0.8	0.8	
ΔE_{ab}^*		1.0	

Reduced shade with titanium dioxide (1:5)

Color values after matching of the tinting strength parameter Y, d.h. $\Delta L^*=0$

Δa^*	-0.5	0.5	
Δb^*	-0.5	0.5	
ΔC^*	-0.6	0.6	
ΔH^*	-0.6	0.6	
ΔE_{ab}^*		0.8	
Relative tinting strength (%)	97	103	No. 001 of 1995-04-28

Dispersibility:

Binder Alkydal® F 681 75% in white spirit

Gindometer values (μ m) (dissolver mill base)	20/35/50	No. 004 of 1995-05-15
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Technical Data:	<u>min.</u>	<u>max.</u>	<u>Test method</u>
Water-soluble content (%)		0.5	DIN EN ISO 787 part 3 (1995)
Sieve residue (0.045-mm-sieve) (%)		0.002	DIN 53 195 (1990)
pH-value	5.0	8.0	DIN EN ISO 787 part 9 (1995)

Informative technical data (standard values)

		<u>Test method</u>
Content Fe ₂ O ₃ (%)	96 - 97	DIN 53 913 sheet 2 (1972)
Content SiO ₂ + Al ₂ O ₃ (%)	< 4.0	DIN 55 913 sheet 2 (1972)
Loss on ignition at 1000°C, ½h (%)	< 0.3	DIN 55 913 sheet 2 (1972)
Moisture content (after production) (%)	< 0.5	DIN EN ISO 787 Part 2 (1995)
Particle size	spherical	
Predominant particle size (µm)	0.09	Electron microscope
Oil absorption (g/100 g)	28	DIN EN ISO 787 part 5 (1995)
Tamped density (g/ml)	1.3 – 1.7	DIN EN ISO 787 part 11 (1995)
Density (g/ml)	5.0	DIN EN ISO 787 part 10 (1995)
Specific surface area	15 m ² /g	

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, labelling and transport of dangerous substances must be ensured. The information contained in the safety data sheet must be observed. This contains information on handling, product safety and ecology.

This product meets the requirements of the European Toys Regulation DIN EN 71, part 3.