

48250 Iron Oxide Red 222

Product Information

Type:	Red pigment
Delivery form:	Powder
Chemical class:	Synthetic iron oxide α -Fe ₂ O ₃
Color Index:	Pigment Red 101 (77491)
CAS No.:	1309-37-1
REACH Registration No.:	01-2119457614-35-0000

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			
Full shade			
ΔL^*	-0.5	0.5	
Δa^*	-1.3	1.3	
Δb^*	-1.5	1.5	
ΔE_{ab}^*		1.7	
Reduced shade with titanium dioxide (1:5)			No. 001
ΔE_{ab}^*		2.0	
Binder: Barytes			
Relative tinting strength (%)	95	105	No. 003

Technical Data:

	<u>min.</u>	<u>max.</u>	<u>Test method</u>
Water-soluble content (%)		0.5	DIN EN ISO 787-3:2000
Sieve residue (0.045-mm sieve) (%)		0.1	DIN EN ISO 787-7:2009
pH-value	5	9	DIN EN ISO 787-9:1995

Informative technical data (standard values)

		<u>Test method</u>
Content α -Fe ₂ O ₃	> 99.1 %	
Loss on ignition at 1000°C, 0.5h	< 1.0 %	DIN 55913-2:1972
Moisture content (after production)	< 0.5%	DIN EN ISO 787-2:1995
Particle size	spherical	Electron microscope
Predominant particle size (µm)	0.2	Electron microscope
Oil absorption (g/100 g)	15	DIN EN ISO 787-5:1995
Tamped density (g/ml)	1.4 - 1.8	DIN EN ISO 787-11:1995
Density (g/ml)	5.0	DIN EN ISO 787-10:1995

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.

Status of Registration

EINECS (Europe), TSCA (USA), DSL (Canada), AICS (Australia), NZIoC (New Zealand)
PICCS (Philippines), ENCS + ISHL (Japan), ECL (Korea), IECSC (China), NECSI (Taiwan)