

TECHNICAL DATA SHEET

Iron Oxide Pigment

Iron Oxide Red 180



Edition of	2016-12-16
Type	Red pigment
Delivery Form	Powder
Chemical Class	Synthetic iron oxide alpha-Fe ₂ O ₃
Color Index	Pigment red 101(77491)
CAS No.	1309-37-1
Use Recommendation	Construction Industry /Coating Industry

COLOR VALUES AND TINTING STRENGTH

Reference Standard:	DIN 6174		
	Min	Max	Test Method
Reduction with titanium dioxide (1:2)		R-706	No.038, 2009-08-01
ΔL*	-0.7	+0.7	
Δa*	-0.7	+0.7	
Δb*	-0.7	+0.7	
ΔE*ab		1.0	
Binder		R-05	
Relative tinting strength [%]	95.0	105.0	No.038, 2009-08-01

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	Min	Max	Test Method
Water-Soluble Content [%]		1.0	DIN ISO787 Part 3
Sieve Residue (0.045mm) [%]		0.5	DIN 53195
Fe ₂ O ₃ [%]	94.0		DIN 55913 Sheet 2
Moisture (After Production) [%]		1.0	DIN ISO787 Part 2
Particle Shape		Spherical	Electron Micrographs

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	Approx.	
Predominant Particle size [μM]	0.1	Electron Micrographs
Oil Absorption [$\text{g}/100\text{g}$]	15~25	DIN ISO787 Part 5
Tamped Density [g/ml]	~1.0	DIN ISO787 Part 11
Density [g/ml]	~5.0	DIN ISO787 Part 10

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.

This information is given in good faith, without warranty. It is also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided 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.

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