

# TECHNICAL DATA SHEET

Iron Oxide Pigment



Iron Oxide Red 110S

<b>Edition of</b>	2016-12-16
<b>Type</b>	Red pigment-High Performance micronised
<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 Recommendation</b>	Construction Industry /Coating Industry/Plastic

## COLOR VALUES AND TINTING STRENGTH

Reference Standard:	Min	Max	DIN 6174 Test Method
Binder	Test Paste Based On R-05		
Full Shade			No.001, 2001-01-01
ΔL*	-0.4	+0.4	
Δa*	-0.8	+0.8	
Δb*	-0.9	+0.9	
ΔE*ab		1.0	
Reduction with titanium dioxide (1:5)	R-706		No.038, 2009-08-01
ΔL*	-0.5	+0.5	
Δa*	-0.5	+0.5	
Δb*	-0.5	+0.5	
ΔE*ab		0.8	
Binder	R-05		
Relative tinting strength [%]	97.0	103.0	No.038, 2009-08-01

## TECHNICAL DATA

	Min	Max	Test Method
Hegman Grind	6.0		ISO-1524
Dispersion (micron)[μm]		25.0	ISO-1524
Water-Soluble Content [%]		0.5	DIN ISO787 Part 3
Sieve Residue (0.045mm) [%]		0.005	DIN 53195
PH Value	5.0	7.0	DIN ISO787 Part 9
Fe <sub>2</sub> O <sub>3</sub> [%]	95.0		DIN 55913 Sheet 2
Moisture (After Production) [%]		1.0	DIN ISO787 Part 2
Loss on Heating 1000°C <sub>1/2h</sub> [%]		5.0	DIN 55913 Sheet 2
Particle Shape	Spherical		Electron Micrographs

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	<b>Approx.</b>	
Predominant Particle size [ $\mu\text{M}$ ]	0.1	Electron Micrographs
Oil Absorption [ $\text{g}/100\text{g}$ ]	$\sim 20$	DIN ISO787 Part 5
Tamped Density [ $\text{g}/\text{ml}$ ]	$\sim 1.0$	DIN ISO787 Part 11
Density [ $\text{g}/\text{ml}$ ]	$\sim 5.0$	DIN ISO787 Part 10

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**STANDARD PACKAGING**      25kg/bag

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## 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.

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## 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.

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