

TECHNICAL DATA SHEET

YIPIN[®] Iron Oxide Pigment
Iron Oxide Red S110M



Edition of	2007-08-10
Type	Red pigment-High Performance micronised
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	

COLOR VALUES AND TINTING STRENGTH

Reference	<u>Min</u>	<u>Max</u>	Standard: <u>Test Method</u>
Binder	Test Paste Based On Sacolud [®] L640 ⁴⁰		Similar To Wet System As Per DIN 55983 (1983)
Full Shade			No.001, 1995-04-28 ⁴¹
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)	TRONOX [®] R-KB-2		No.001, 1995-04-28 ⁴¹
ΔL*	-0.5	0.5	
Δa*	-0.5	0.5	
Δb*	-0.5	0.5	
ΔE*ab		0.8	
Binder	Barytes		
Relative tinting strength [%]	97	103	No.003, 1994-03-11 ⁴¹

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	<u>Min</u>	<u>Max</u>	<u>Test Method</u>
Hegman Grind	6.0		ISO-1524-2000
Dispersion (micron)[μm]		25	ISO-1524-2000
Water-Soluble Content [%]		0.5	DIN EN ISO787 Part 3 (1995)
Sieve Residue (0.045mm) [%]		0.005	DIN EN ISO787 Part 2 (1995)
PH Value	5	7	DIN EN ISO787 Part 9 (1995)
Fe ₂ O ₃ [%]	96		DIN 55913 Sheet 2 (1972)
SiO ₂ +Al ₂ O ₃ Content [%]		3	DIN 55913
Moisture (After Production) [%]		0.5	DIN EN ISO 787 Part 2 (1995)
Loss on Heating 1000°C ^{1/2} h [%]		0.7	DIN EN ISO 55913
Particle Shape	Spherical		Electron Micrographs

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	<u>Approx.</u>	
Predominant Particle size [μM]	0.17	Electron Micrographs
Water Absorption [$\text{g}/100\text{g}$]	20	DIN EN ISO787 Part 5 (1995)
Tamped Density [g/ml]	1.0	DIN EN ISO 787 Part 11 (1995)
Density [g/ml]	5.0	DIN EN ISO787 Part 10 (1995)

STANDARD PACKAGING

25kg/bag 1000kg /bulk 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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