

TECHNICAL DATA SHEET

YIPIN[®] Iron Oxide Pigment
Iron Oxide Red 4110



Edition of	2015-12-04
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	Coating、 Construction、 Plastic

COLOR VALUES AND TINTING STRENGTH

Reference	<u>Min</u>	<u>Max</u>	Standard <u>Test Method</u>
Reduction with titanium dioxide (1:5)	R-706		Similar to ASTM D-387
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 [%]	98.0	103.0	Similar to ASTM D-387

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	<u>Min</u>	<u>Max</u>	<u>Test Method</u>
Water-Soluble Content [%]		0.5	ASTM 1208-96
Sieve Residue (0.045mm) [%]		0.05	ASTM D 185
Fe ₂ O ₃ [%]	95.0		ASTM D 50
PH Value	5.0	7.0	ASTM 1208-96
Moisture (After Production) [%]		1.0	ASTM D 280-01
Loss on Heating 1000°C ^{1/2} h [%]		4.0	ASTM D1208
Particle Shape	Spherical		Electron Micrographs

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	<u>Approx.</u>	
Predominant Particle size [μM]	0.1	Electron Micrographs
Water Absorption [$\text{g}/100\text{g}$]	~25	ASTM D 28
Tamped Density [g/ml]	~1.0	ASTM D153
Density [g/ml]	~5.0	ASTM D153 C604

STANDARD PACKAGING	50lb/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.

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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