

# TECHNICAL DATA SHEET

YIPIN<sup>®</sup> Iron Oxide Pigment  
Iron Oxide Yellow S982D



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<b>Edition of</b>	2015-02-18
<b>Type</b>	Yellow pigment
<b>Delivery Form</b>	Powder
<b>Chemical Class</b>	Synthetic iron oxide alpha-FeOOH
<b>Color Index</b>	Pigment yellow 42(77492)
<b>CAS No.</b>	20344-49-4
<b>Use Recommendation</b>	Construction

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## COLOR VALUES AND TINTING STRENGTH

Reference			Standard: ASTM
	<b>Min</b>	<b>Max</b>	<b>Test Method</b>
Reduction with titanium dioxide (1:2)	R-706		ASTM D 387
$\Delta L^*$	-0.7	+0.7	
$\Delta a^*$	-0.7	+0.7	
$\Delta b^*$	-0.7	+0.7	
$\Delta E^*_{ab}$		1.0	
Binder	R-05		
Relative tinting strength [%]	95.0	105.0	

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	<b>Min</b>	<b>Max</b>	<b>Test Method</b>
Water-Soluble Content [%]		1.0	ASTM D 1208
Sieve Residue (0.045mm) [%]		0.5	ASTM D 185
Fe <sub>2</sub> O <sub>3</sub> [%]	86.0		ASTM D 50
Moisture (After Production) [%]		1.0	ASTM D 280
Loss on Heating 1000°C <sup>1/2</sup> h [%]		14.0	ASTM D1208
Particle Shape	acicular		Electron Micrographs

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	<u>Approx.</u>	
Predominant Particle size [ $\mu\text{M}$ ]	0.1 $\times$ 0.8	Electron Micrographs
Oil Absorption [ $\text{g}/100\text{g}$ ]	$\sim$ 30	ASTM D 281
Tamped Density [ $\text{g}/\text{ml}$ ]	0.7 $\sim$ 1.1	ASTM B 527
Density [ $\text{g}/\text{ml}$ ]	$\sim$ 4.0	ASTM D153

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<b>STANDARD PACKAGING</b>	25kg/bag, 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.

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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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