

# TECHNICAL DATA SHEET

YIPIN<sup>®</sup> Iron Oxide Pigment  
Iron Oxide Yellow S920M



<b>Edition of</b>	2015-02-18
<b>Type</b>	Yellow pigment-High Performance micronised
<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>	Coating、 Construction、 Plastic

## COLOR VALUES AND TINTING STRENGTH

Reference			Standard: ASTM
	<u>Min</u>	<u>Max</u>	<u>Test Method</u>
Binder	Test Paste Based On R-05		
Full Shade			ASTM D 387
$\Delta L^*$	-0.4	+0.4	
$\Delta a^*$	-0.8	+0.8	
$\Delta b^*$	-0.9	+0.9	
$\Delta E^*ab$		1.0	
Reduction with titanium dioxide (1:5)	R-706		ASTM D 387
$\Delta L^*$	-0.5	+0.5	
$\Delta a^*$	-0.5	+0.5	
$\Delta b^*$	-0.6	+0.6	
$\Delta E^*ab$		0.8	
Binder	R-05		
Relative tinting strength [%]	97.0	103.0	

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	<u>Min</u>	<u>Max</u>	<u>Test Method</u>
Hegman Grind	6.0		ASTM D 1210
Dispersion (micron)[ $\mu m$ ]		25.0	ASTM D 1210
Water-Soluble Content [%]		0.5	ASTM D 1208
Sieve Residue (0.045mm) [%]		0.005	ASTM D 185
PH Value	4.5	7.0	ASTM D 1208
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

**YIPIN PIGMENTS, INC.** Tel:+1-909-243-7394 Fax: +1-909-243-7397 www.yipin.com  
一品颜料 Tel:+86-21-5950 8509 Fax: +86-21-5950 7893 wh@yipin.com

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	<u>Approx.</u>	
Predominant Particle size [ $\mu\text{M}$ ]	0.1 $\times$ 0.4	Electron Micrographs
Oil Absorption [g/100g]	~35	ASTM D 281
Density [g/ml]	~4.0	ASTM D153

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<b>STANDARD PACKAGING</b>	20kg/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.

## 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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