

# TECHNICAL DATA SHEET

Iron Oxide Pigment



Iron Oxide Yellow 920S

<b>Edition of</b>	2016-12-16
<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 (77492)
<b>CAS No.</b>	20344-49-4
<b>Use Recommendation</b>	Construction Industry /Coating Industry/Plastic

## COLOR VALUES AND TINTING STRENGTH

Reference Standard:			DIN 6174
	<b>Min</b>	<b>Max</b>	<b>Test Method</b>
Binder		Test Paste Based On R-05	
Full Shade			No.001, 2001-01-01
$\Delta L^*$	-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	No.038, 2009-08-01
$\Delta L^*$	-0.5	+0.5	
$\Delta a^*$	-0.5	+0.5	
$\Delta b^*$	-0.5	+0.5	
$\Delta E^*ab$		0.8	
Binder		R-05	
Relative tinting strength [%]	97.0	103.0	No.038, 2009-08-01

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	<b>Min</b>	<b>Max</b>	<b>Test Method</b>
Hegman Grind	6.0		ISO-1524
Dispersion (micron)[ $\mu\text{m}$ ]		25.0	ISO-1524
Water-Soluble Content [%]		0.5	DIN ISO787 Part 3
Sieve Residue (0.045mm) [%]		0.005	DIN 53195
PH Value	4.5	7.0	DIN ISO787 Part 9
Fe <sub>2</sub> O <sub>3</sub> [%]	86.0		DIN 55913 Sheet 2
Moisture (After Production) [%]		1.0	DIN ISO787 Part 2
Loss on Heating 1000°C <sub>1/2h</sub> [%]		14.0	DIN 55913 Sheet 2
Particle Shape		acicular	Electron Micrographs

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	<b>Approx.</b>	
Predominant Particle size [ $\mu\text{M}$ ]	0.1*0.4	Electron Micrographs
Oil Absorption [ <b>g/100g</b> ]	~35	DIN ISO787 Part 5
Tamped Density [ <b>g/ml</b> ]	~0.6	DIN ISO787 Part 11
Density [ <b>g/ml</b> ]	~4.0	DIN ISO787 Part 10

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**STANDARD PACKAGING** 20kg/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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This information is given in good faith, without warranty. It 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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