

48000 Iron Oxide Yellow 920, medium

Product Information

Type:	Yellow pigment
Delivery form:	Powder
Chemical class:	Synthetic iron oxide gamma-FeOOH
Color Index:	Pigment Yellow 42 (77492)
CAS-No.:	20344-49-4

Specification

Color values and tinting strength

	<u>min.</u>	<u>max.</u>	<u>Test method</u>
Binder: test paste based on Sacolyd® L 640			Similar to wet system as per DIN 55 983 (1983)
Full shade			No. 001 of 1995-04-28
ΔL^*	-0.3	0.5	
Δa^*	-1.0	1.0	
Δb^*	-1.3	1.3	
ΔE_{ab}^*		1.5	

Reduced shade with titanium dioxide (1:5)

Δa^*	-1.0	1.0	
Δb^*	-1.3	1.3	
ΔE_{ab}^*		1.5	
Relative tinting strength (%)	95	108	No. 001 vom 1995-04-28

Binder: barium sulphate			
Relative tinting strength (%)	95	105	

Technical Data:

	<u>min.</u>	<u>max.</u>	<u>Test method</u>
Water-soluble content (%)		0.5	DIN EN ISO 787 part 3 (2000)
Sieve residue (0.045-mm-sieve) (%)		0.04	DIN EN ISO 787 part 7 (2009)
pH-value	3.5	7.5	DIN EN ISO 787 part 9 (1995)

Informative technical data (standard values)

			<u>Test method</u>
Content Fe ₂ O ₃ (%)	85	87	DIN 55 913 part 2 (1972)
Content SiO ₂ + Al ₂ O ₃ (%)		1.0	DIN 55 913 part 2 (1972)
Loss on ignition at 1000°C, 0.5h (%)		< 14	DIN 55 913 part 2 (1972)
Moisture content (after production) (%)		< 0.5	DIN EN ISO 787 part 2 (1995)
Particle size	spicular		
Predominant particle size (µm)	0.1 x 0.6		Electron microscope
Oil absorption (g/100 g)	60		DIN EN ISO 787 part 5 (1995)
Tamped density (g/ml)	0.3	0.5	DIN EN ISO 787 part 11 (1995)
Density (g/ml)	4.1		DIN EN ISO 787 part 10 (1995)

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, labelling and transport of dangerous substances must be ensured.

The information contained in the safety data sheet must be observed. This contains information on handling, product safety and ecology.