

## 48050 Iron Oxide Yellow-Orange 943, Gamma

### 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
REACH Registration No.:	01-2119457554-33-0000

### Specification

#### Color values and tinting strength

	<u>min.</u>	<u>max.</u>	<u>Test method</u>
Binder: test paste based on a non drying alkyd resin			
Full shade			No. 001 of 1995-04-28
$\Delta L^*$	-0.5	0.5	
$\Delta a^*$	-1.0	1.0	
$\Delta b^*$	-1.0	1.0	
$\Delta C_{ab}^*$	-1.0	1.0	
$\Delta H_{ab}^*$	-1.0	1.0	
$\Delta E_{ab}^*$		1.0	

#### Reduced shade with titanium dioxide (1:5)

$\Delta a^*$	-0.8	0.8
$\Delta b^*$	-0.8	0.8
$\Delta C_{ab}^*$	-0.8	0.8
$\Delta H_{ab}^*$	-0.8	0.8
$\Delta E_{ab}^*$		0.8
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 (1995)
Sieve residue (0.045-mm-sieve) (%)		0.05	DIN 53 195 (1990)
pH-value	4.0	7.0	DIN EN ISO 787 part 9 (1995)

### Informative technical data (standard values)

		<u>Test method</u>
Content Fe <sub>2</sub> O <sub>3</sub> (%)	> 87	
Content SiO <sub>2</sub> + Al <sub>2</sub> O <sub>3</sub> (%):	< 0.2 %	
Loss on ignition at 1000°C, 0.5h (%)	< 13	DIN 55 913 sheet 2 (1972)
Moisture content (after production) (%)	< 0.5	DIN EN ISO 787 Part 2 (1995)
Particle size	spicular	
Predominant particle size (µm)	0.05 x 0.3	Electron microscope
Oil absorption (g/100 g)	42	DIN EN ISO 787 part 5 (1995)
Tamped density (g/ml)	< 0.6	DIN EN ISO 787 part 11 (1995)
Density (g/ml)	3.8	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.