

## Product Specification

Edition of: 2005-08-26  
 Replaces edition of: 2004-08-01

**Commercial name**                    **Bayferrox®4910**  
**Licensed Manufacturer**        **Lanxess Shanghai Pigments Co., Ltd.**

### General description

Type    Yellow pigment  
 Chemical class                                Synthetic iron oxide  $\alpha$ -FeOOH  
 Delivery form                                    Powder  
 Colour index                                    Pigment yellow 42(77492)  
 CAS No.                                         20344-49-4

For ecological and toxicological data see safety data sheet. Safety data sheet available on request.

### Specified values

#### Colour values and tinting strength

Reference	BF 4910 powder standard 1999		Test method
	<u>Min.</u>	<u>Max.</u>	
<b>Binder</b>	Sacolyd® L 640		
<b>Full shade</b>			
$\Delta L^*$	-0.5	0.5	Colour measurement to DIN 6174
$\Delta a^*$	-0.8	0.8	
$\Delta b^*$	-0.8	0.8	
$\Delta E^*$		1.0	
<b>Reduced shade with Titanium dioxide TRONOX® R-KB-2 (1 : 5) (<math>\Delta L^* = 0</math>)</b>			
$\Delta a^*$	-0.8	0.8	Colour measurement to DIN 6174 and DIN 55 986
$\Delta b^*$	-0.8	0.8	
$\Delta E^*$		1.0	
<b>Binder</b>	Heavy spar		
<b>TS<sub>rel</sub> [%]</b>	95	105	Test procedure DIN 55 913

#### Technical data

	<u>Min.</u>	<u>Max.</u>	<u>Test method</u>
Sieve residue (on 0.045 mm mesh) [%]		0.05	DIN 53 195
pH	4	7	ISO 787 part 9

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### Specified values (continued) Informative technical data (guide values)

	<u>Min.</u>	<u>Max.</u>	<u>Test method</u>
Fe <sub>2</sub> O <sub>3</sub> [%]	86		DIN 55 913
SiO <sub>2</sub> + Al <sub>2</sub> O <sub>3</sub> [%]		0.6	DIN 55 913
Loss on heating at 1000°C, ½ h [%]		15.0	DIN 55 913
Water-soluble salts [%]		0.5	ISO 787 part 3
Water content (ex works) [%]		1.0	ISO 787 part 2
Oil absorption [g/100g]		approx. 32	ISO 787 part 5
Particle shape		acicular	
Predominant particle size[µm]		0.1×0.8	Electron micographs
Tamped apparent density [g/cm <sup>3</sup> ]		approx. 0.4	ISO 787 part 11
Density [g/cm <sup>3</sup> ]		approx. 4.0	ISO 787 part 10

### Packing

Standard packing	20-kg bag
	500-kg bulk bag

### Transport and storage conditions

Protect from atmospheric conditions: store in a dry place and avoid extreme temperature fluctuations.

#### Special conditions for opened packages:

Close bag after use to prevent moisture intake and soiling.