

Product Specification

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

Commercial name Bayferrox®4920
Licensed Manufacturer Lanxess Shanghai Pigments Co., Ltd.

General description

Type Yellow pigment
 Chemical class Synthetic iron oxide α -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	BF4920 powder standard 1999		
	<u>Min.</u>	<u>Max.</u>	<u>Test method</u>
Binder	Sacolyd® L 640		
Full shade			
?L*	-0.5	0.5	Colour measurement to DIN 6174
?a*	-0.8	0.8	
?b*	-0.8	0.8	
?E*		1.0	
Reduced shade with Titanium dioxide TRONOX® R-KB-2 (1 : 5) (?L* = 0)			
?a*	-0.8	0.8	Colour measurement to DIN 6174 and DIN 55 986
?b*	-0.8	0.8	
?E*		1.0	
Binder	Heavy spar		
TS _{rel} [%]	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

Product Specification

Bayferrox®4920

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

Specified values (continued)

Informative technical data (guide values)

	<u>Min.</u>	<u>Max.</u>	<u>Test method</u>
Fe ₂ O ₃ [%]	86		DIN 55 913
SiO ₂ + Al ₂ O ₃ [%]		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]		0.1x 0.8	Electron micographs
Tamped apparent density [g/cm ³]		approx. 0.4	ISO 787 part 11
Density [g/cm ³]		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.