

Product Specification

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

Commercial name Bayferrox®4125
Licensed Manufacturer Lanxess Shanghai Pigments Co., Ltd.

General description

Type Red pigment
Chemical class Synthetic iron oxide α -Fe₂O₃
Delivery form Powder
Colour index Pigment red 101(77491)
CAS No. 1309-37-1

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

Specified values

Colour values and tinting strength

Reference	BF4125 powder standard 1998		Test method
	<u>Min.</u>	<u>Max.</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

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Specified values (continued)

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	5	7	ISO 787 part 9

Informative technical data (guide values)

	<u>Min.</u>	<u>Max.</u>	<u>Test method</u>
Fe ₂ O ₃ [%]	95		DIN 55 913
SiO ₂ + Al ₂ O ₃ [%]		0.6	DIN 55 913
Loss on heating at 1000°C, ½ h [%]		4.0	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. 22	ISO 787 part 5
Particle shape		spherical	
Tamped apparent density [g/cm ³]		approx. 1.0	ISO 787 part 11
Density [g/cm ³]		approx. 5.0	ISO 787 part 10

Packing

Standard packing	25-kg bag 1,000-kg bulk bag
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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.