

Product Specification

 Edition of:
 Replaces edition of:

 2010-03-01
 2004-08-01

Commercial name **Bayferrox®4110**

Licensed Manufacturer **LANXESS Shanghai Pigments Co., Ltd.**

General description

Type	Red pigment
Chemical class	Synthetic iron oxide α -Fe ₂ O ₃
Delivery form	Powder
Colour index	Pigment red 101(77491)
CAS No.	1309-37-1
REACH registration no.	01-2119457614-35-0000

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

Specified values

Colour values and tinting strength

Reference	BF4110 powder standard 2010		Test method
	<u>Min.</u>	<u>Max.</u>	
Binder	Sacolyd® L 640		
Full shade			
ΔL^*	-0.5	0.5	Colour measurement to DIN 6174
Δa^*	-0.8	0.8	
Δb^*	-0.8	0.8	
ΔE^*		1.0	
Reduced shade with Titanium dioxide TRONOX® R-KB-2 (1 : 5) ($\Delta L^* = 0$)			
Δa^*	-0.8	0.8	Colour measurement to DIN 6174 and DIN 55 986
Δb^*	-0.8	0.8	
ΔE^*		1.0	
Binder	Heavy spar		
TS_{rel} [%]	95	105	Test procedure DIN 55 913

Product Specification

Bayferrox®41110

Edition of:
Replaces edition of:2010-03-01
2004-08-01**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	
Predominant particle size[µm]		0.1	Electron micrographs
Tamped apparent density [g/cm ³]		approx. 1.0	ISO 787 part 11
Density [g/cm ³]		approx. 5.0	ISO 787 part 10
Chlorine[%]		0.1	EN 12878

Packing

Standard packing	25-kg bag
	1,000-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.