BAYFERROX® color for life.

LANXESS Energizing Chemistry

Product Information

Bayferrox® 512 Z

Description

Type	Red pigment with high chemical purity [11]
Delivery form	Powder
Chemical class	Synthetic iron oxide alpha Fe_2O_3
Colour Index	Pigment red 101 (77491)
CAS-No.	1309-37-1

Specification

Colour values and tinting strength			
Reference	Bayferrox 512 Z		
Powder standard	2006		
Binder	Test paste based on a non drying alkyd resin[40]		Similar to wet system DIN 55 983 (1983)
	min	**max**	**Test method**
Reduction with titanium dioxide Tronox® R-KB-2 (1 : 5) Colour values after matching of the tinting strength parameter Y, i.e. Delta-L*=0			No. 001 of 1995-04-28[41]
Δ a*	-0.7	0.7	
Δ b*	-0.9	0.9	
Δ E_{ab}*		1.0	
Relative tinting strength [%]	95	110	No. 001 of 1995-04-28[41]

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Specification

Trace Elements[11]		max	Test method
As [mg/kg]		3	Atomic spectroscopy
Ba [mg/kg]		50	Atomic spectroscopy
Cd [mg/kg]		5	Atomic spectroscopy
Cr [mg/kg]		100	Atomic spectroscopy
Cu [mg/kg]		50	Atomic spectroscopy
Hg [mg/kg]		1	Atomic spectroscopy
Ni [mg/kg]		200	Atomic spectroscopy
Pb [mg/kg]		10	Atomic spectroscopy
Sb [mg/kg]		100	Atomic spectroscopy
Se [mg/kg]		1	Atomic spectroscopy
Zn [mg/kg]		100	Atomic spectroscopy
Technical Data	min	max	Test method
water-soluble content [%]		1	as per DIN EN ISO 787 part 3 (1995)

Informative technical data (guide values)

			Test method
Content Fe_2O_3 [%]	>	98	as per DIN 55 913 sheet 2 (1972)
Loss on ignition at 1000 °C, 0.5 h [%]	<	2.0	similar to DIN 55 913 sheet 2 (1972)
Moisture content (after production) [%]	<	1.0	as per DIN EN ISO 787 part 2 (1995)
Particle shape		spherical	Electron micrographs
Predominant particle size [µm]	~	0.15	Electron micrographs
Oil absorption [g/100 g]	~	35	as per DIN EN ISO 787 part 5 (1995)
Tamped density [g/ml]	~	0.7	as per DIN EN ISO 787 part 11 (1995)
Density [g/ml]	~	5.0	as per DIN EN ISO 787 part 10 (1995)

[11]Technical information on the purity requirement [41]

[40]see separate information sheet "Pigment test pastes"[41]

[41]obtainable from LANXESS Deutschland GmbH, Business Unit Inorganic Pigments,
Fax +49-2151-88-9599-4139, Email ipg.product-information@lanxess.com

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Bayferrox® 512 Z

Packaging

25-kg-bag

Transport and storage

Protect against weathering. Store in a dry place and avoid extreme fluctuations in temperature. When storing large quantities of pigments, temperatures above 80 °C must be avoided. Provided that the product is stored under the correct storage conditions the product has a long storage stability for at least five years. 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 safety data sheet should be observed. This contains information on handling, product safety and ecology.

Safety data sheet no.:	490923

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