

Product Information

Bayferrox[®] 645 T

Description

Type	Brown pigment - High Performance, special with high thermal stability
Delivery form	Powder
Chemical class	Synthetic mixed iron and manganese oxide (Fe,Mn) ₂ O ₃
Colour Index	Pigment brown 43 (77536)
CAS-No.	12062-81-6 68186-94-7

Specification

Colour values and tinting strength			
Reference	Bayferrox 645 T		Powder standard 2001
Binder	Test paste based on a non drying alkyd resin ⁴⁰		Similar to wet system DIN 55 983 (1983)
	min	max	Test method
Full shade			No. 001 of 1995-04-28 ⁴¹
Delta-L*	-0.5	0.5	
Delta-a*	-1.2	1.2	
Delta-b*	-1.3	1.3	
Delta-C*	-1.2	1.2	
Delta-H*	-1.2	1.2	
Delta-E _{ab} *		1.5	
Reduction with titanium dioxide Tronox[®] R-KB-2 (1 : 5)			No. 001 of 1995-04-28 ⁴¹
Colour values after matching of the tinting strength parameter Y, i.e. Delta-L*=0			
Delta-a*	-1.2	1.2	
Delta-b*	-1.3	1.3	

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Delta-C*	-1.2	1.2	
Delta-H*	-1.2	1.2	
Delta-E _{ab} *		1.5	
Relative tinting strength [%]	95	110	No. 001 of 1995-04-28 ⁴¹

Specification

Technical Data	min	max	Test method
water-soluble content [%]		0.8	as per DIN EN ISO 787 part 3 (1995)
Sieve residue (0.045 mm sieve) [%]		0.1	as per DIN 53195 (1990)
pH value	5.5	8.5	as per DIN EN ISO 787 part 9 (1995)

Informative technical data (guide values)

		Test method
Content Fe ₂ O ₃ [%]	85	as per DIN 55 913 sheet 2 (1972)
Content SiO ₂ + Al ₂ O ₃ [%]	4	as per DIN 55 913 sheet 2 (1972)
Loss on ignition at 1000 °C, 0.5 h [%]	0.5	similar to DIN 55 913 sheet 2 (1972)
Moisture content (after production) [%]	0.5	as per DIN EN ISO 787 part 2 (1995)
Particle shape	spherical	Electron micrographs
Predominant particle size [µm]	0.3	Electron micrographs
Oil absorption [g/100 g]	28	as per DIN EN ISO 787 part 5 (1995)
Tamped density [g/ml]	0.8	as per DIN EN ISO 787 part 11 (1995)
Density [g/ml]	4.7	as per DIN EN ISO 787 part 10 (1995)

⁴⁰see separate information sheet "Pigment test pastes"⁴¹

⁴¹obtainable from LANXESS Deutschland GmbH, Business Unit Inorganic Pigments, Fax +49-2151-88-969-4139, Email ipg.product-information@lanxess.com

Bayferrox® 645 T

Packaging

25-kg-bag
1000-kg-bulk bag

Transport and storage

Protect against weathering. Store in a dry place and avoid extreme fluctuations in temperature.
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.:	002775
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