

Technical Data Sheet

Bayferrox[®] 318

Description

Type	Black Pigment
Delivery form	Powder
Chemical class	Synthetic iron oxide – Fe ₃ O ₄
Color Index	Pigment black 11 (77499)
CAS-Nr.	1317-61-9

Colorimetric Data

Color values and tinting strength			
Reference	Bayferrox 318		STD2000
Binder	Test paste based on a non drying alkyd resin		Test Method based on DIN 55 983 (1983)
	min.	max.	Test method
Reduction with titanium dioxide (1 : 5)			Based on DIN6174 & 55986
Color values after matching of the tinting strength parameter: Y, d. h.			
Delta-a*	-0,8	0,8	
Delta-b*	-0,8	0,8	
Delta-E _{ab} *		1,4	
Relative tinting strength [%]	95	105	Based on DIN 55 913

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Specification

Technical Data	min.	max.	Test method
Sieve residue 325 Mesh [%]		0,3	Based on ASTM D-185
pH value	5,0	8,0	Based on ASTM D-1208

Informative technical data

	min.	max.	Test method
Fe ₂ O ₃ Content [%]	85	95	Based on ASTM D-50
Soluble Salts [%]		1,5	Based on ASTM D-1208
Oil absorption [g/100g]	10	20	Based on ASTM D-281
Tamped density [g/cm ³]	1,0	1,4	Based on ASTM D-787-11
Density [g/cm ³]	4,2	4,6	Based on ASTM D-153-75
Moisture content after production [%]		3,5	Based on ASTM D-280

Packaging

25 kg – paper bag

Transport and Storage

Protect against weathering.

Store in a dry place and avoid extreme temperature fluctuations.

Close bag after use to prevent moisture absorption and contamination.

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Safety

Bayferrox 318 is not classified as dangerous substance according to transport regulations (not classified).
The sample handling does not need special procedure.
The safety data sheet should be observed. It contains information on handling, product safety and ecology.

Use

Bayferrox 318 is broadly used in several applications, however its use is not recommended in food and drugs.

Site address

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