

Product Information

Bayferrox® 360 Z

Description

Type	Black pigment with high chemical purity ¹¹	Delivery Form	Powder
Chemical Class	Synthetic Iron Oxide Fe ₃ O ₄	Color Index	Pigment Black 11 (77499)
Standard	2006	Manufacturer	LANXESS GmbH
CAS-No.	1317-61-9		

Specified values are determined to LANXESS internal quality control procedures. Color readings are reported in CIELab* units.

Specified Color Data

	<u>Minimum</u>	<u>Maximum</u>	<u>Test Method</u>
1. Color (TiO₂ reduction, 1:5)*^{45,46}			No. 001 ⁴¹
Δa*	-0.7	0.7	
Δb*	-0.9	0.9	
ΔE*		1.0	
2. Relative Tinting Strength (Barytes)	95	105	No. 003 ⁴¹

*Binder test paste is based on a non-drying alkyd resin

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Specified Technical Data

Specified technical data	min	max	Test method
Watersoluble content [%]		1.0	similar to DIN EN ISO 787-3:2000
Trace Elements ¹¹		max	Test method
As [mg/kg]		3	Atomic spectroscopy
Ba [mg/kg]		50	Atomic spectroscopy
Cd [mg/kg]		1	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

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Informative Technical Data*

		Test Method
Fe ₃ O ₄ Content (%) ⁵³	> 99.5	Information about the determination of iron oxide ⁴¹
Loss on ignition at 1000°C, ½ hr. (%) ⁵	< 5.0	DIN 55 913 page 2 (1972)
Moisture content – after production (%)	< 1.0	DIN EN ISO 787 Part 2 (1995)
Particle Shape	spherical	Electron Microscope
Predominant Particle size (Microns)	~ 0.3	Electron Microscope
Tap Density (g/ml)	1.2 - 1.6	DIN EN ISO 787 Part 11 (1995)
Density (g/ml)	~ 4.6	DIN EN ISO 787 Part 10 (1995)

¹¹ Technical information on the purity requirement ⁴¹
⁴¹ Obtainable from LANXESS Deutschland GmbH, Business Unit Inorganic Pigments, mailto: ipg.product-information@lanxess.com
⁴⁵ Colour values after matching of the tinting strength parameter Y, i.e. Δ L*=0
⁴⁶ Similar to wet system DIN 55983:1983
⁵³ Minor elements may arise from the raw materials used. However, these are firmly bound to the crystal lattice as ions.

*These items are provided as general information only. They are approximate values and are not considered part of the product specification.

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Note: The information contained in this publication is current as of March 2015. Please contact LANXESS to determine if this publication has been revised