



Product Information

Bayferrox® 345

Description

Туре	Black pigment	Delivery Form	Powder
Chemical Class	Synthetic Iron Oxide	Color Index	Pigment Black 11 (77499)
	Fe ₃ O ₄		, , ,
Standard	2012	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.

Specifications

1. Color (TiO ₂ reduction, 1:5)* ^{45,46}		<u>Minimum</u>	<u>Maximum</u>	Test Method No. 001 ⁴¹
(102111111, 110)	Δa* Δb* ΔE*	-0.7 -0.9	0.7 -0.9 1.0	
2. RelativeTintingStrength (Barytes)		95	105	No. 003 ⁴¹
3. pH		4.0	8.0	DIN EN ISO 787-9 (1995)
4. Water Soluble Salts (max %)			2.0	DIN EN ISO 787-3 (2000)

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





Bayferrox® 345 – Informative Technical Data*

		Test Method	
Content Fe ₃ O ₄ (%) ⁵³	>95.0	Information about the determination of iron oxide ⁴¹	
Loss on ignition at 1000°C, ½ hr. (max %) ⁵	5.0	DIN 55 913 page 2 (1972)	
Moisture content – after production (%)	<4.0	DIN EN ISO 787 Part 2 (1995)	
Particle Shape	spherical	Electron Microscope	
Predominant Particle size (Microns)	~0.15	Electron Microscope	
Oil Absorption (g/100g)	~21	DIN EN ISO 787 Part 5 (1995)	
Tap Density (g/ml)	0.8-1.2	DIN EN ISO 787 Part 11 (1995)	
Density (g/ml)	~4.6	DIN EN ISO 787 Part 10 (1995)	

⁵ In iron oxide black pigments, a chemical transformation (oxidation) is also recorded when determing the loss on ignition.

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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

⁴¹ Obtainable from LANXESS Deutschland GmbH, Business Unit Inorganic Pigments, mailto: ipg.product-information@lanxess.com

⁴⁶ 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.