

Product Information

Bayferrox® 918LO

Description

Type	Yellow pigment -	Delivery Form	Powder
Chemical Class	Synthetic Iron Oxide α-FeOOH	Color Index	Pigment Yellow 42 (77492)
Standard	2005	Manufacturer	LANXESS
CAS-No.	20344-49-4		

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

Specifications

		<u>Minimum</u>	<u>Maximum</u>	<u>Test Method</u>
1. Color (Masstone)*⁴⁶	ΔL^*	-0.8	0.8	No. 001 ⁴¹
	Δa^*	-0.8	0.8	
	Δb^*	-0.8	0.8	
	ΔE^{ab*}		1.4	
2. Color (TiO₂ reduction, 1:5)*^{45,46}				No. 001 ⁴¹
	Δa^*	-0.8	0.8	
	Δb^*	-0.8	0.8	
	ΔE^{ab*}		1.4	
3. Relative Tinting Strength (TiO ₂ reduction, 1:5)		95	105	No. 001 ⁴¹
4. pH		4.0	8.0	DIN EN ISO 787-9 (1995)

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

Bayferrox® 918LO – Informative Technical Data*

		Test Method
Content α -FeOOH (%) ⁵³	> 99.3	Information about the determination of iron oxide ⁴¹
Loss on ignition at 1000°C, ½ hr. (max %) ³	< 14	DIN 55 913 page 2 (1972)
Moisture content – after production (%)	< 0.5	DIN EN ISO 787 Part 2 (1995)
Particle Shape	acicular	Electron Microscope
Predominant Particle Size (Microns)	0.1 x 0.6	Electron Microscope
Oil Absorption (g/100g)	~ 25	DIN EN ISO 787 Part 5 (1995)
Tap Density (g/ml)	0.6 - 0.9	DIN EN ISO 787 Part 11 (1995)
Density (g/ml)	~ 4.0	DIN EN ISO 787 Part 10 (1995)

³ Iron oxide yellow pigments contain a large amount of chemically bound water that is also recorded

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

⁴⁵ Colour values after matching of the tinting strength parameter Y, i.e. $\Delta L^*=0$

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