

Technical Data Sheet

BAYFERROX® 130 M



Description

Type	Red pigment - High Performance micronised
Delivery form	Powder
Chemical class	Synthetic iron oxide α - Fe ₂ O ₃
Colour Index	Pigment red 101 (77491)
CAS-No.	1309-37-1
REACH registration no.	01-2119457614-35

Specified Color Data

Colour values and tinting strength					
Standard	Bayferrox 130 M				
Year	2017				
Binder:	Full shade		Reduction ⁴⁶ with titanium dioxide (1:5)		Test method No. 001 ⁴¹
Test paste based on a non drying alkyd resin					
ΔL^*	-0.4	0.4			
Δa^*	-0.6	0.6	-0.5	0.5	
Δb^*	-0.7	0.7	-0.5	0.5	
ΔC^*_{ab}	-0.8	0.8	-0.6	0.6	
ΔH^*_{ab}	-0.8	0.8	-0.6	0.6	
ΔE^*_{ab}		1.0		0.8	
Relative tinting strength [%]			95	105	

Specified Technical Data

Dispersibility		max	Test method
Fineness of grind [μ m]		15/30/40	No. 004 ⁴¹
Technical Data	min	max	Test method
Water-soluble content [%]		0.4	similar to DIN EN ISO 787-3:2000
Sieve residue (0.045 mm sieve) [%]		0.002	DIN EN ISO 787-7:2009
pH value	5	8	DIN EN ISO 787-9:1995

Informative Technical Data (guide values)

			Test method
α - Fe ₂ O ₃ content [%] ⁵³	>	99.2	Information about the determination of iron oxide ⁴¹
Loss on ignition at 1000 °C, 0.5 h [%]	<	0.7	DIN 55913-2:1972
Moisture content (after production) [%]	<	0.3	DIN EN ISO 787-2:2021
Particle shape		spherical	Electron micrographs
Predominant particle size [μ m]	~	0.17	Electron micrographs
Oil absorption [g/100 g]	~	27	DIN EN ISO 787-5:1995
Tamped density [g/ml]	0.7 -	1.1	similar to DIN EN ISO 787-11:1995
Density [g/ml]	~	5.0	DIN EN ISO 787-10:1995

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. $\Delta L^*=0$

⁵³ Minor elements may arise from the raw materials used. However, these are firmly bound to the crystal lattice as ions.