

TECHNICAL DATA SHEET

Iron Oxide Red T4120

Edition of	2012-12-11
Type	Red Pigment
Molecular formula	Fe ₂ O ₃
Molecular weight	159.69
Delivery Form	Powder
Chemical Class	Synthetic Iron Oxide alpha – Fe ₂ O ₃
Color Index	Pigment Red 101 (77491)
CAS No.	1309-37-1
Use Recommendation	Coatings, Construction, Plastic

COLOR VALUES AND TINTING STRENGTH

Reference	Standard: DIN 6174		
	<u>Min</u>	<u>Max</u>	<u>Test Method</u>
Reduction with titanium dioxide (1:5)		R-706	No.038, 2009-08-01
Binder		R-05	
ΔL*	-0.7	+0.7	
Δa*	-0.7	+0.7	
Δb*	-0.7	+0.7	
ΔE*ab		1.0	
Relative tinting strength [%]	98.0	103.0	No.038, 2009-08-01

TECHNICAL DATA

	<u>Min</u>	<u>Max</u>	<u>Test Method</u>
Water-Soluble Content [%]		0.5	DIN ISO787 - 3
Sieve Residue (0.045mm) [%]		0.05	DIN 53195
Fe ₂ O ₃ [%]	95.0		DIN 55913 - 2
PH Value	5.0	7.0	DIN ISO787 - 9
Moisture (After Production) [%]		1.0	DIN ISO787 - 2
Loss on Heating 1000°C 1/2h [%]		4.0	DIN 55913 - 2
Particle Shape		Spherical	Electron Micrographs
		<u>Approx.</u>	
Predominant Particle size [um]		0.1	Electron Micrographs
Water Absorption [g/100g]		~25	DIN ISO787 - 5
Tamped Density [g/100g]		~1.0	DIN ISO787 - 11
Density [g/100g]		~5.0	DIN ISO787 - 10

STANDARD PACKAGING 25kg/bag