

TECHNICAL DATA SHEET

Iron Oxide Yellow T4920

Edition of	2012-12-11
Type	Yellow Pigment
Molecular formula	Fe ₂ O ₃ . H ₂ O
Molecular weight	177.71
Delivery Form	Powder
Chemical Class	Synthetic Iron Oxide
Color Index	Pigment Yellow 42(77492)
CAS No.	20344-49-4
Use ReCommedation	Coating, Construction

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*	-0.2	+0.5	
Δa*	-0.2	+0.3	
Δb*	-0.2	+0.6	
Δc*	-0.15	+0.6	
ΔE*ab		0.6	
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 [%]	86.0		DIN 55913 - 2
PH Value	4.0	7.0	DIN ISO787 - 9
Moisture (After Production) [%]		1.0	DIN ISO787 - 2
Loss on Heating 1000°C 1/2h [%]		15.0	DIN 55913 - 2
Particle Shape		acicular	Electron Micrographs
		<u>Approx.</u>	
Predominant Particle size [μm]		0.1 x 0.8	Electron Micrographs
Water Absorption [g/100g]		~40	DIN ISO787 - 5
Tamped Density [g/ml]		~0.6	DIN ISO787 - 11
Density [g/ml]		~4.0	DIN ISO787 - 10

STANDARD PACKAGING 20kg/bag