

## TECHNICAL DATA SHEET

### Iron Oxide Red T4140

<b>Edition of</b>	2012-12-11
<b>Type</b>	Red Pigment
<b>Molecular formula</b>	Fe <sub>2</sub> O <sub>3</sub>
<b>Molecular weight</b>	159.69
<b>Delivery Form</b>	Powder
<b>Chemical Class</b>	Synthetic Iron Oxide alpha – Fe <sub>2</sub> O <sub>3</sub>
<b>Color Index</b>	Pigment Red 101 (77491)
<b>CAS No.</b>	1309-37-1
<b>Use Recommendation</b>	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 <sub>2</sub> O <sub>3</sub> [%]	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]		0.3	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