

## TECHNICAL DATA SHEET

### Iron Oxide Black T318

<b>Edition of</b>	2012-12-11
<b>Type</b>	Black Pigment
<b>Molecular formula</b>	Fe <sub>3</sub> O <sub>4</sub>
<b>Molecular weight</b>	231.54
<b>Delivery Form</b>	Powder
<b>Chemical Class</b>	Synthetic Iron Oxide
<b>Color Index</b>	Pigment Black 11 (77499)
<b>CAS No.</b>	1317-61-9
<b>Use ReCommedation</b>	Building

#### COLOR VALUES AND TINTING STRENGTH

Reference	Standard: DIN 6174		
	<u>Min</u>	<u>Max</u>	<u>Test Method</u>
Reduction with titanium dioxide (1:2)		R-706	No.038.2009-08-01
$\Delta L^*$	-0.7	0.7	
$\Delta a^*$	-0.7	0.7	
$\Delta b^*$	-0.7	0.7	
$\Delta E^*_{ab}$		1.0	
Binder		R-05	
Relative tinting strength [%]	95	105	No.038.2009-08-01

#### TECHNICAL DATA

	<u>Min</u>	<u>Max</u>	<u>Test Method</u>
Fe <sub>3</sub> O <sub>4</sub>	94		DIN 55913-2
Water soluble substances [%]		0.5	DIN ISO 787-3
Moisture at 105°C [%]		1.0	DIN ISO 787-2
Oil absorption approx [%]		25	DIN ISO 787-5
Sieve residue on 0.045mm mesh [%]		0.1	DIN 53195
Tinting strengths vs. standard range	95	105	DIN 6174
$\Delta E$		1.0	DIN 6174
PH Value	4.0	8.0	DIN ISO 787-9
Density		4.5	DIN ISO 787-10
Tamped Density		1.0	DIN ISO 787-11

#### STANDARD PACKAGING 25kg/bag