



ZHEJIANG GREEFIELD INDUSTRY CO.,LTD

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Material Technical Data Sheet

General Information:

Version Date: 2010-05-28

Product Name : Iron Oxide Black 318

Chemical Formula : Fe_3O_4 ($\text{Fe}_2\text{O}_3 \cdot \text{FeO}$)

Type : Black Pigment

Color Index : Pigment Black 11 (77499)

Delivery Form : Powder

CAS No. : 1317-61-9

EINECS No. : 215-277-5

Technical Specification:

Color Value&Tinting Strength	Unit	Specification	Test Method
Mass Tone ΔE_{abL}		≤ 1.0	ISO787-1
Tint Tone ΔE_{abL}		≤ 0.8	ISO787-16
Relative tinting strength	%	97 ~ 103	ISO787-16
Technical Data	Unit	Specification	Test Method
Fe ₂ O ₃ Content	%	≥ 92.0	ISO1248
Matter Volatile at 105°C	%	≤ 1.0	ISO787-2
Water Soluble Salts	%	≤ 0.3	ISO787-3
Residue on 45 μ m Mesh	%	≤ 0.3	ISO787-7
PH Value		5.5 ~ 8.0	ISO787-9
Oil Absorption	g/100g	15 ~ 25	ISO787-5
Density	g/cm ³	4.80	ISO787-10
Tamped Density	g/cm ³	1.00	ISO787-11
Predominant Particle Size	μ m	0.15	Electron Micrographs
Particle Shape		Spherical	Electron Micrographs
Standard Package	25kg/bag , 50lb/bag , 1000kgs/bag base on standard fine palletized.		
Transportation and Storage	Protect against weathering. Store in a dry place and avoid extreme fluctuations in temperature. Special conditions for opened packaging: Close bags after use to prevent the absorption of moisture and contamination.		
Safety	The product is not classified as hazardous under EC1907/2006 & EC1272/2008.		

The information presented in this brochure is given in good faith and is accurate to the best knowledge of GREEFIELD. Since the application process and conditions of use of our products are beyond our control, all recommendations and suggestions are made without guarantee. We make no implied warranty of merchantability, or fitness for a particular purpose. The user has an obligation to test the products to confirm their suitability for the intended use.

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