



ZHEJIANG GREEFIELD INDUSTRY CO.,LTD

ADD: No.1388, WEST OF SECOND RING ROAD, DEVELOPMENT ZONE, HUZHOU 313001 ZJ, CHINA.

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Material Technical Data Sheet

General Information:

Version Date: 2010-05-28

Product Name: Micronized Iron Oxide Yellow 313M **CAS No.:** 51274-00-1
Chemical Formula: $\text{Fe}_2\text{O}_3 \cdot \text{H}_2\text{O}$ (FeOOH) **EINECS No.:** 257-098-5
Color Index: Pigment Yellow 42 (77492) **Type:** Fine Yellow Pigment in Micronized Powder
Dispersibility (Hegman) : 8 Grade, Characteristics of Particle Size < 16 μm ;

Technical Specification:

| Color Value & Tinting Strength | Unit | Specification | Test Method |
|--|--|---------------|----------------------|
| Mass Tone ΔE_{ab}^* | | ≤ 1.2 | ISO787-1 |
| Tint Tone ΔE_{ab}^* | | ≤ 1.0 | ISO787-24 |
| Relative tinting strength | % | 95 ~ 105 | ISO787-24 |
| Technical Data | Unit | Specification | Test Method |
| Fe ₂ O ₃ Content | % | ≥ 86.0 | ISO1248 |
| Matter Volatile at 105℃ | % | ≤ 1.0 | ISO787-2 |
| Water Soluble Salts | % | ≤ 0.3 | ISO787-3 |
| Residue on 45 μm Mesh | % | ≤ 0.008 | ISO787-7 |
| PH Value | | 6.0 ~ 7.5 | ISO787-9 |
| Oil Absorption | g/100g | 25 ~ 35 | ISO787-5 |
| Ignition loss (1,000℃, ½ h) | % | ≤ 14.0 | DIN55913 |
| Density | g/cm ³ | 4.10 | ISO787-10 |
| Tamped Density | g/cm ³ | 0.60 | ISO787-11 |
| Dispersibility (Hegman) | μm | 15 / 20 / 25 | ISO787-20 |
| Predominant Particle Size | μm | 0.17 | Electron Micrographs |
| Particle Shape | | Spherical | Electron Micrographs |
| Standard Package | 20kgs/bag, 25kg/bag, 50lb/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. | | |

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