

TECHNICAL DATA SHEET

YIPIN[®] Iron Oxide Pigment
Iron Oxide Red 4140



| | |
|---------------------------|---|
| Edition of | 2015-12-04 |
| Type | Red pigment |
| Delivery Form | Powder |
| Chemical Class | Synthetic iron oxide alpha-Fe ₂ O ₃ |
| Color Index | Pigment red 101(77491) |
| CAS No. | 1309-37-1 |
| Use Recommendation | Coating、 Construction、 Plastic |

COLOR VALUES AND TINTING STRENGTH

| Reference | <u>Min</u> | <u>Max</u> | Standard <u>Test Method</u> |
|---------------------------------------|------------|------------|--------------------------------|
| Reduction with titanium dioxide (1:5) | R-706 | | Similar to ASTM D-387 |
| ΔL* | -0.7 | +0.7 | |
| Δa* | -0.7 | +0.7 | |
| Δb* | -0.7 | +0.7 | |
| ΔE*ab | | 1.0 | |
| Binder | R-05 | | |
| Relative tinting strength [%] | 98.0 | 103.0 | Similar to ASTM D-387 |

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| | <u>Min</u> | <u>Max</u> | <u>Test Method</u> |
|---|------------|------------|----------------------|
| Water-Soluble Content [%] | | 0.5 | ASTM 1208-96 |
| Sieve Residue (0.045mm) [%] | | 0.05 | ASTM D 185 |
| Fe ₂ O ₃ [%] | 95.0 | | ASTM D 50 |
| PH Value | 5.0 | 7.0 | ASTM 1208-96 |
| Moisture (After Production) [%] | | 1.0 | ASTM D 280-01 |
| Loss on Heating 1000°C ^{1/2} h [%] | | 4.0 | ASTM D1208 |
| Particle Shape | Spherical | | Electron Micrographs |

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| | <u>Approx.</u> | |
|---|----------------|----------------------|
| Predominant Particle size [μM] | 0.3 | Electron Micrographs |
| Water Absorption [$\text{g}/100\text{g}$] | ~25 | ASTM D 28 |
| Tamped Density [g/ml] | ~1.0 | ASTM D153 |
| Density [g/ml] | ~5.0 | ASTM D153 C604 |

| | |
|---------------------------|----------|
| STANDARD PACKAGING | 50lb/bag |
|---------------------------|----------|

TRANSPORT 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 dangerous under the relevant EC directives and corresponding national regulations valid in the individual EU member states. It is not dangerous according to transport regulations. In countries outside the EU, compliance with the respective national legislation concerning the classification, packaging, labeling and transport of dangerous substances must be ensured.

The information contained in the safety data sheet should be observed.

This contains information on handling, product safety and ecology.

This information is given in good faith, without warranty. It is also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General conditions of sale and delivery.

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