
TECHNICAL DATA SHEET

1. **Product Name:** Iron oxide red 180

2. **CAS Number:** 1309-37-1

3. **Formula:** Fe₂O₃

4. **Molecular weight:** 159.69

5. **Chemical-Physical Properties:**

Appearance: red crystal powder

Tamped apparent Density/Bulk Density: 0.7-1.7g/cm³

Melting point: 1565°C (decomposed)

Solubility: Insoluble in water, soluble in hydrochloric acid and sulphuric acid, slightly soluble in nitric acid and alcohols.

Stability: Reduced to Fe by hydrogen or carbon monoxide, set off oxygen when ignition.

6. **Usage:** Inorganic pigment. Widely used in concrete coloring, paintings, printing inks.

7. **Specification:**

Fe₂O₃: 96.0% min.

Oil absorption: 15-25 ml/100g

Volatiles at 105°C: 1.0% max.

Residue of 325 mesh: 0.3% max.

Water solubles: 0.3% max.

PH value: 3-7

Tinting strength: 95-105

Shade: similar with standard sample

8. **Packaging:**

25kgs PP woven bag or kraft bags, 40bags per pallet, shrink-wrapped.

1000kgs PP woven jumbo bag, palletized.