



Technical Data Sheet

Product Name: Yellow Iron Oxide

Product Number: P3423

CAS Number: 51274-00-1

EINECS Number: 257-098-5

Appearance: Fine Yellow Powder.

Chemical Name: Iron Oxide, Hydrate.

Chemical Formula: $\text{FeO}(\text{OH})$

Chemical Analysis:

Fe_2O_3 : 87%

SiO_2 : 0.20% (Maximum)

Al_2O_3 : 0.15% (Maximum)

Loss of Ignition: 12%

Water soluble salts: 0.20%

Physical Characteristics:

Particle size data:

Residue retained on 240's mesh sieve: 0.5%

Average particle size: $0.40\mu\text{m}$

Specific surface area: $13.7\text{m}^2/\text{g}$

Specific Gravity: 4.0

Tapped bulk density: 0.4g/ml

Application:

The product is used within the ceramics industry for its pigmentary characteristics as stains for body and glazes either directly or as a component of more complex manufactured stains and in glazes (3-8%) it imparts shades of yellow to brown colours.