

Vaani



TINTOXIDE™

Iron Oxide Yellow



Technical Data Sheet

General Description

Product Name	Iron Oxide Yellow
Type	Yellow pigment
Chemical Class	Synthetic Iron Oxide α -Fe ₂ O ₃ .H ₂ O
Form	Powder
CI Name	Pigment Yellow 42
CAS	51274-00-1

Chemical Properties

Parameters	Specification	Test Method
Fe ₂ O ₃ content %	84 min.	IS 44:1991, ANNEX-B, Table 1, S1. No-(ix)
pH value	3-7	IS 33:1992 21
Oil absorption %	25-30	IS 33:1992 10
Residue on 325 mesh %	0.5 max	IS 33:1992 9
Water soluble % by mass	0.3 max	IS 33:1992 19
Volatiles at 100±5°C % by mass	1.0 max	IS 33:1992 8
Bulk density g/cc	0.6-0.8	IS 33:1992 17
Relative density	4-4.15	IS 33:1992 16
Acidity (as H ₂ SO ₄) %	0.1 max	IS 33:1992 18
Loss on ignition %	13 max	IS 44:1991, ANNEX -G, Table 1, S1, No-(xiv)
Water wettability	Passed	ASTM C979 7.1
Alkali resistance	Resistant	ASTM C979 7.2
Total sulphates	0.3-0.7%	ASTM C979 7.3
Atmospheric curing stability	Resistant	ASTM C979 7.5
Light resistance	Resistant	ASTM C979 7.6
Effects on concrete, 28 day compressive strength	102%	ASTM C979 7.7.5

Applications

Industrial coating	Paints and Coatings	Roof tile coating	Paver blocks
Decorative paints	Acrylic paints	Coil coating	Wood coating
Automotive coating	Plastic and rubber	Wood plastic composites	Corrosion protection
Leather industry	Masterbatches	Mortar	Textile industry
Tiles	Noise barrier	Art and craft	Road marking paint

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Vaani Enterprises

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