

THE TATA PIGMENTS LTD

TECHNICAL DATA SHEET

Revision Date: 19.06.19

GENERAL DESCRIPTION:-

Product Name	:	Iron Oxide Orange
Туре	:	Orange Pigment
Shade	:	960
Chemical Class	:	Synthetic iron oxide α-Fe2O3
Delivery Form	:	Powder
Color Index	:	Pigment Red (77491)
		Pigment Yellow (77492)
CI Name	:	Pigment Red 101
		Pigment Yellow 42
CAS	:	Red Oxide-1309-37-1
		Yellow Oxide-51274-00-1

ABSOLUTE COLOUR VALUES

Full Shade		Tint Shade	
Binder – Test Paste made	nder – Test Paste made by Alkyd Binder – Test Paste made by Alkyd Resin(lkyd Resin(Non
Resin (Non Drying)		Drying)	
L	44.85	Tinted with Titanium Dioxide Rutile, grade 822	
А	27.63	- (1:3)	45.78
В	29.04		27.34
С	40.08	B	29.52
Н	46.41	С	40.23
DE compared with 960	1 max	Н	47.18
std		DE compared with 960 std	1 max
	·	Relative Tinting Strength	95 - 105

CHEMICAL PROPERTIES:

Parameters	Specifications	Test Method
Content of Fe2O3, %	86 min.	IS 44:1991, ANNEX-B, Table1, Sl.
		No-(ix)
PH Value	3-7	IS 33:1992 21
Oil Absorption, %	20-30	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
Volatite at 100±5°C, % by mass	1.0 max.	IS 33:1992 8



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Bulk Density, gm/cc	0.6-0.8	IS 33:1992 17		
Relative Density	4.3 - 4.6	IS 33:1992 16		
Acidity (as H2SO4), %	0.1, max	IS 33:1992 18		
Water wettability	Passed	ASTM C979 7.1		
Alkali resistance	Resistant	ASTM C979 7.2		
Total Sulfates	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				
A. 28-days Compressive Strength	102%	ASTM C979 7.7.5		
B. B. Initial or Final Set	I* -15	ASTM C979 7.7.3		
	F* +5			
Color Match of Shipment	$DE^* \leq 1$	ASTM C979 7.8		

Legends :

DE* = Colour Difference according to CIELAB I* = Deviation in Minutes Initial

 F^* = Deviation in Minutes Final

Standard = -60/+90

APPLICATIONS

Industrial Coating	Acrylic Paints	Roof tile Coating	Textile Industry
Decorative Paints	Paints & Coatings	Coil Coating	Wood Coating
Automotive	Plastic and Rubber	Wood Plastic Composites	Corrosion Protection
Coating	polymers		
Leather Industry	Masterbatches	Mortar	Paver Blocks
Tiles	Noise barrier		





Mohua Siinhababu

Package: - 25kg bag HDPE bags

Dy Manager(R&D & TS)