



## THE TATA PIGMENTS LTD

### TECHNICAL DATA SHEET

Revision Date: 19.06.19

#### GENERAL DESCRIPTION:-

<b>Product Name</b>	:	Iron Oxide Yellow
<b>Type</b>	:	Yellow Pigment
<b>Shade</b>	:	Yellow Oxide (N)
<b>Chemical Class</b>	:	Synthetic iron oxide $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> .H <sub>2</sub> O
<b>Delivery Form</b>	:	Powder
<b>Color Index</b>	:	Pigment Yellow (77492)
<b>CI Name</b>	:	Pigment Yellow 42
<b>CAS</b>	:	51274-00-1
<b>Particle Shape</b>	:	Acicular

#### **ABSOLUTE COLOUR VALUES**

Full Shade Binder – Test Paste made by Alkyd Resin (Non Drying)		Tint Shade Binder – Test Paste made by Alkyd Resin(Non Drying) Tinted with Titanium Dioxide Rutile, grade 822 (1:3)	
L	59.96	L	75.24
A	17.03	A	9.05
B	48.36	B	35.20
C	51.27	C	36.34
H	70.57	H	75.55
DE compared with SIOYN std	1 max	DE compared with SIOYN std	1 max
		Relative Tinting Strength	95 - 105

#### **CHEMICAL PROPERTIES:**

Parameters	Specifications	Test Method
Content of Fe <sub>2</sub> O <sub>3</sub> , %	84 min.	IS 44:1991, ANNEX-B, Table1, Sl. 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
Volatite at 100±5°C, % by mass	1.0 max.	IS 33:1992 8
Bulk Density, gm/cc	0.6-0.8	IS 33:1992 17
Relative Density	4 - 4.15	IS 33:1992 16



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Acidity (as H <sub>2</sub> SO <sub>4</sub> ), %	0.1, max	IS 33:1992 18
Loss on Ignition, %	13 max	IS 44:1991, ANNEX-G, Table1, Sl. No-(xiv)
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 F* +5	ASTM C979 7.7.3
Color Match of Shipment	DE* ≤ 1	ASTM C979 7.8

### **Legends :**

DE\* = Colour Difference according to CIELAB

I\* = Deviation in Minutes Initial

F\* = Deviation in Minutes Final

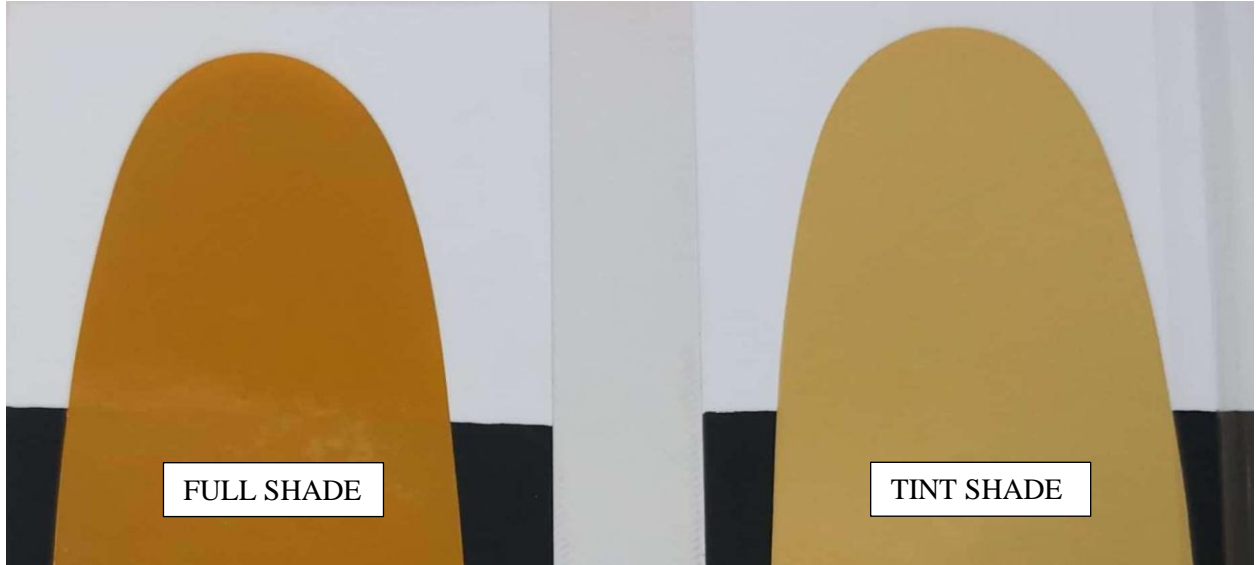
Standard = -60/+90

### **APPLICATIONS**

Industrial Coating	Acrylic Paints	Roof tile Coating	Textile Industry
Decorative Paints	Paints & Coatings	Coil Coating	Wood Coating
Automotive Coating	Plastic and Rubber polymers	Wood Plastic Composites	Corrosion Protection
Leather Industry	Masterbatches		



**THE TATA PIGMENTS LTD**



**Package:** - 25kg bag HDPE bags

*Mohua Singhababu*

**Dy Manager(R&D & TS)**