



THE TATA PIGMENTS LTD

TECHNICAL DATA SHEET

Revision Date: 19.06.19

GENERAL DESCRIPTION:-

Product Name	:	Iron Oxide Black
Type	:	Black Pigment
Shade	:	Black Oxide T-330
Chemical Class	:	Synthetic iron oxide α -Fe ₂ O ₃
Delivery Form	:	Powder
CI Name	:	Pigment Black 11
CAS	:	1317-61-9

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	22.24	L	53.72
A	0.71	A	-0.54
B	-0.49	B	-5.61
C	0.86	C	5.63
H	325.27	H	264.41
DE compared with T-330 std	1 max	DE compared with T-330 std	1 max
		Relative Tinting Strength	95 - 105

CHEMICAL PROPERTIES:

Parameters	Specifications	Test Method
Content of Fe ₂ O ₃ , %	79 min.	IS 44:1991, ANNEX-B, Table1, Sl. No-(ix)
PH Value	4-7	IS 33:1992 21
Oil Absorption, %	18-22	IS 33:1992 10
Residue on 325 mesh, %	0.5 max.	IS 33:1992 9
Water soluble, % by mass	0.5 max.	IS 33:1992 19
Volatite at 100±5°C, % by mass	1.0 max.	IS 33:1992 8
Bulk Density, gm/cc	1-1.2	IS 33:1992 17
Relative Density	4.2-4.5	IS 33:1992 16
Acidity (as H ₂ SO ₄), %	0.1, max	IS 33:1992 18
Ferrous Iron (as FeO), %	20, min	IS 44:1991, ANNEX-C, Table1, Sl.



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		No-(x)
Calcium Compounds (as CaO), %	2.25 max	IS 44:1991, ANNEX-E, Table1, Sl. No-(xii)
Water wettability	Passed	ASTM C979 7.1
Alkali resistance	Resistant	ASTM C979 7.2
Total Sulfates	0.05 – 0.13%	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	106.5%	ASTM C979 7.7.5
B. B. Initial or Final Set	I* -25 F* -10	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

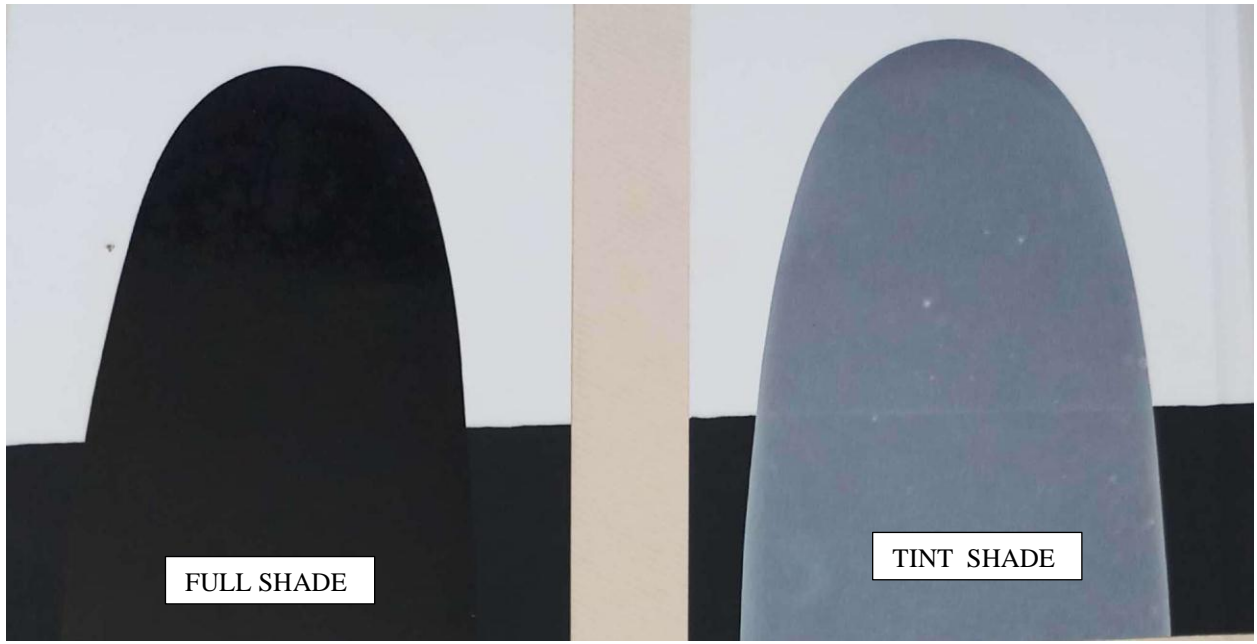
Standard = -60/+90

APPLICATIONS

Industrial Coating	Emulsion Paints	Roof tile Coating	Powder Coating
Decorative Paints	Paints & Coatings	Coil Coating	Wood Coating
Automotive Coating	Plastic and Rubber polymers	Wood Plastic Composites	Corrosion Protection
Leather Industry	Textile Industry	Plaster	Sand – Lime Bricks
Mortar	Masterbatches	Paver	Tiles
Ceramic			



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Package: - 25kg bag HDPE bags

Mohua Srinivasulu

Dy Manager(R&D & TS)