

Laboratory PTL & Analytical Laboratory, Sudarshan Chemical Industries Limited, A-19, M.I.D.C. Nangalwadi, Mahad, Dist. Raigad, Maharashtra
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number TC-7317 (in lieu of T-0897) **Page 1 of 5**
Validity 10.06.2018 to 09.06.2020 **Last Amended on -**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	INKS, DYES & PIGMENTS			
1.	Pigments for Offset Letter Press Ink (Organic & Inorganic Pigments)	Colour Shade FT (Visual) :	CPTL/201 – Issue No – 30 Effective Date – 11.04.2018	Qualitative
		Under Tone		Qualitative
		Print Tone		Qualitative
		Mass Tone		Qualitative
		Colour Shade TT (Visual)		Qualitative
		Colour strength TT (Visual)		95 % to 105 %
		Dispersion on NPIRI/ Hegman Gauge		Qualitative
		Texture on NPIRI/ Hegman Gauge		Qualitative
		Transparency (Visual)		Qualitative
		Flow on Glass plate		5 cm to 15 cm
2.	Pigments for Plastic Application (Organic & Inorganic Pigments)	Colour Shade – FT	CPTL/639 – Issue No – 28 Effective Date – 10/12/2015	Qualitative
		Colour Shade TT :		Qualitative
		DE		0 to 1.5
		DL		(-)0.8 to 0.8
		Da		(-)0.8 to 0.8
		Db		(-)0.8 to 0.8
		DC		(-)0.8 to 0.8
		DH		(-)0.8 to 0.8
		Colour Strength TT		95 % to 105 %
		Dispersibility TT - 1,2,4,6 minutes		Qualitative

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		(Visual)		
		Dispersion FT (Visual)		Qualitative
		Transparency FT (Visual)		Qualitative
3.	Pigments for Air Drying Enamel Paints (Organic & Inorganic Pigments)	Colour shade TT (Visual)	CPTL/501– issue No – 48 Effective date – 03/09/2015	Qualitative
		Colour shade TT : DE		Qualitative
		DL		0 to 1.5
		Da		(-)0 .8 to 0.8
		Db		(-)0 .8 to 0.8
		DC		(-)0 .8 to 0.8
		DH		(-)0 .8 to 0.8
4.	Pigments for Aqueous Inks (Organic & Inorganic Pigments)	Colour Strength TT	CPTL/231 – Issue No – 20 Effective Date – 21/11/2006	95 %to 105%
		Colour shade FT (Visual)		Qualitative
		Colour strength TT		95% to 105 %
		Initial Viscosity by Zahn cup#3 in sec. (Individual)		11 to 60 sec
5.	Pigments for PVC (Organic & Inorganic Pigments)	Colour shade FT, TT (Visual)	SUDA0711 – Issue No – 00 Effective date – 20/01/2012	Qualitative
		Colour shade TT		Qualitative
		DE		0 to 1.5
		DL		(-)0 .8 to 0.8
		Da		(-)0 .8 to 0.8
		Db		(-)0 .8 to 0.8
		DC		(-)0 .8 to 0.8
		DH		(-)0 .8 to 0.8
		Colour Strength TT		95% to 105 %

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6.	Physical properties of Pigments (Organic & Inorganic Pigments)	Oil Absorption	CPTL/301 – Issue No – 27 Effective date – 07/09/2012	20 ml/100g to 60 ml/100g
		Bleeding (Visual scale 1-5)		Qualitative
7.	Pigments for Aqueous Emulsion Paints (Organic & Inorganic Pigments)	Colour shade – 4 % Shade :	CPTL/243- Issue No – 13 Effective date – 25/10/2013	Qualitative
		DE		0 to 1.5
		DL		(-)0.8 to 0.8
		Da		(-)0.8 to 0.8
		Db		(-)0.8 to 0.8
		DC		(-)0.8 to 0.8
		DH		(-)0.8 to 0.8
8.	Pigments for Decorative Enamel Paint (Organic Pigments)	Colour Strength 4 % Shade	SUDA0701 – Issue No – 01 Effective date – 31.10.2017	95 to 105 %
		Colour shade Full tone (Visual)		Qualitative
		Colour Shade Full Tone		Qualitative
		DE		0 to 1.5
		DL		(-)0.8 to 0.8
		Da		(-)0.8 to 0.8
		Db		(-)0.8 to 0.8
		Opacity		Qualitative
		Colour shade Tint (Visual)		Qualitative
		Colour Shade Tint		Qualitative
		DE		0 to 1.5
		DL		(-)0.8 to 0.8
		Da		(-)0.8 to 0.8

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		Db		(-)0.8 to 0.8
		Colour strength Tint		95 % to 105 %
9.	Pigments for Industrial Paint (Organic Pigments)	Colour shade Full tone (Visual)	SUDA0702 – issue No – 07 Effective date – 12.03.2018	Qualitative
		Colour shade Full Tone		Qualitative
		DE		0 to 1.5
		DL		(-)0.8 to 0.8
		Da		(-)0.8 to 0.8
		Db		(-)0.8 to 0.8
		Dc		(-)0.8 to 0.8
		Dh		(-)0.8 to 0.8
		Colour shade Tint		95 % to 105 %
10.	Pigments for NC –PU based liquid Ink (For Organic & Inorganic Pigments)	Colour shade Full tone (Visual)	SUDA0706 –Issue no -01 Effective Date – 12/01/2010	Qualitative
		Transparency-Gray Scale		Qualitative
		Viscosity by Zhan Cup # 3 (Individuals)		10 to 30 sec
		Color Shade Tint _ DE		0 to 1.50
		Color Shade Tint _ DL		(-)0.8 to 0.8
		Color Shade Tint _ Da		(-)0.8 to 0.8
		Color Shade Tint _ Db		(-)0.8 to 0.8
		Color Strength –Tint		95% to 105 %
11.	Pigment	Volatile matter	Ana/402 – Issue No – 05 Effective date – 09/03/2005	0.1 to 10.0%
		Conductivity of pigment (microS/cm)	Ana/437 – Issue No – 06 Effective date – 02/08/2005	30 ms/cm to 3000 ms/cm
		Water solubility	ANA/401 – Issue No – 06 Effective Date – 20/01/2005	0.1% to 3 %
		Bulk density	Ana/406 - Issue No – 01 Effective date – 09/12/2006	0.1 g/cc to 0.8 g/cc

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		pH	Ana/431 – Issue No – 08 Effective date – 09/03/2005	6 to 10
		Specific gravity	Ana/405 - Issue No – 11 Effective date – 02/08/2005	1.0 to 3.0