Laboratory QC Laboratory-Jay Chemical Industries Limited, Unit-1, Plot No. 44, GIDC Industrial Estate, Odhav, Ahmedabad, Gujarat

Accreditation Standard	ISO/IEC 17025: 2017	
Certificate Number	TC-5200	Page 1 of 3
Validity	08.02.2019 to 07.02.2021	Last Amended on

SI.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	of Test	-	against which tests are	Limits of Detection
			performed	

CHEMICAL TESTING

Ι.	INKS, DYES AND F	PIGMENTS		
1.	Reactive Dyes	Strength of Reactive Dyes in Solution	IS 14444:1997 (RA 2002)	0.1 to 1.5 (Absorbance)
				95% to 105% (Relative color strength)
		Strength of Reactive Dyes by Dyeing Test, (Strength of Dyed Piece)	SOP–QC–108, Rev:00, dated 01.01.2017	1 % to 300 %
		Color difference of reactive dyes by dyeing test ΔE, Δa, Δb, Δc, ΔL, ΔH (CIE and CMC 2:1) of Dyed Piece	IS 15098:2002 (RA 2010)	$\Delta E=0.01 \text{ to } 25$ $\Delta a= \pm 0.01 \text{ to } 25$ $\Delta b= \pm 0.01 \text{ to } 25$ $\Delta c= \pm 0.01 \text{ to } 25$ $\Delta L= \pm 0.01 \text{ to } 25$ $\Delta H= \pm 0.01 \text{ to } 25$
		pH of dye Solution	SOP–QC–110, Rev:00, dated 01.01.2017	1 to 14
		Dusting Behavior of Dye Powder-Visual	AATCC 184–2014	Grade 1 to 5 ± 0.5
		Solubility of water soluble Dyes at dissolving temp. of 20°C to 80°C	IS 13627: 1993 (RA 2000)	1 gpl to 250 gpl
		Moisture Content in dye powder	SOP–QC–109, Rev:00, dated 01.01.2017	0.2 % to 15 %
II.	HAZARDOUS AND	RESTRICTED CHEMICALS		
1.	Reactive Dyes	Para chloro aniline (PCA) in Reactive Dyes	EN 14362 (Part 1): 2017 (Annexure F)	10 mg/kg to 1000 mg/kg
		Beta Napthylamine (BNA)	EN 14362 (Part 1): 2017	10 mg/kg to 1000 mg/kg

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		in Reactive Dyes	(Annexure F)	
III.	TEXTILE (WOVEN A	AND NON WOVEN)		
1.	Dyed Textile	Colorfastness to perspiration	AATCC 15:2013	Grade 1 to 5 ± 0.5
		Colorfastness to perspiration : Alkaline and Acidic	ISO 105 E04:2013	Grade 1 to 5 ± 0.5
		Colorfastness to Bleaching :Hypo chlorite	ISO 105 N01:1993	Grade 1 to 5 ± 0.5
		Colorfastness to Bleaching : Hydrogen Peroxide	ISO 105 N02:1993	Grade 1 to 5 ± 0.5
		Colorfastness to Perspiration and Light	ISO 105 B07:2009 AATCC 125:2013	BWS Rating 1 to 6 ± 0.5 Grade 1 to 5 ± 0.5
		Colorfastness to Chlorinated water (swimming pool water)	ISO 105 E03:2010	Grade1 to 5± 0.5
		Colorfastness to Light: Xenon–Arc	AATCC 16.3:2014	Grade 1 to 5 ± 0.5
		Colorfastness to Light: Xenon–Arc	ISO 105 B02:2014	BWS Rating 1 to 6 ± 0.5
		Colorfastness to Domestic and Commercial Laundering	ISO 105 C10:2006 ISO 105 C06:2010 except D3S and D3M	Grade 1 to 5 ± 0.5
		Colorfastness to Crocking	AATCC 8 : 2013 ISO 105 X12 : 2016	Grade 1 to 5 ± 0.5
		Colorfastness to water	AATCC 107:2013 ISO 105 E01:2013	Grade 1 to 5 ± 0.5
		Colorfastness to Mercerizing	ISO 105 X04:1994	Grade 1 to 5 ± 0.5
		Colorfastness to Spotting : Acid	ISO 105 E05:2010	Grade 1 to 5 ± 0.5
		Colorfastness to Spotting : Alkali	ISO 105 E06:2006	Grade 1 to 5 ± 0.5

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or rest		performed	Limits of Detection
	Colorfastness to Hot Pressing	ISO 105 X11:1994	Grade 1 to 5 ± 0.5
	Shade Matching Exhaust Dyeing : Visual Assessment	SOP–QC–111, Rev:00, dated 01.01.2017	Qualitative