

Laboratory	Laboratory, Textile Committee, P. Balu Road, Prabhadevi Chowk, Prabhadevi, Mumbai, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	08.12.2014
Certificate Number	T-0005	Valid Until	07.12.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. TEXTILE & TEXTILE AUXILIARIES				
1.	Fibre, Yarn, Fabrics, Garments & Madeups	Identification of Textiles fibres	IS 667:1981 (RA 2008) AATCC 20 – 2013	Qualitative
		Fibre analysis of mixtures: (Quantitative)	IS 9889:1988 (RA 2010) (Silk & wool) IS 1889:1979 (Part4) (RA 2010) (Cotton + Viscose) IS 6503:1988 (RA 2010) & IS 2005:1988 (RA 2009) (Nylon + Others) IS 2006:1988 (RA 2009) (Wool + Others) IS 3416(Part I): 1988 (RA 2009) (Polyester + Cotton) (Polyester + Viscose) IS 3421:1988 (RA 2010) (Acrylic + Others) IS 9896:1981 (RA 2008) (Polyolefin + others) AATCC 20A –2013	1 % to 100 % 1 % to 100 % 1 % to 100 % 1 % to 100 % 1 % to 100 % 1 % to 100 % 1 % to 100 % 1 % to 100 %
		pH value of aqueous extracts	IS: 1390:1983 (RA 2004) AATCC- 81:2012 DIN EN 1413-1998 ISO 3071 – 2005	1 to 14
		Colour fastness to washing with soap or soap and soda	IS/ISO 105 C10-2006 (RA 2010) ISO 105 C10-2006 BSEN 20105-C10-2007	Grade 1 to 5 (Qualitative)

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	Fibre, Yarn, Fabrics, Garments & Madeups	Colour fastness to organic solvents	IS 688:1988 (RA 2009) ISO 105 – X05-1994	Grade 1 to 5 (Qualitative)
		Colour fastness to rubbing	IS 766:1988 (RA 2009) AATCC 8-2013 ISO 105 X12-2001	Grade 1 to 5 (Qualitative)
		Colour fastness to perspiration	IS 971:1983 (RA 2004) BSENISO 105-E-04-1996 ISO 105 EO4-2013 DIN EN ISO 105 EO4-1996 JISL 0848-1996	Grade 1 to 5 (Qualitative)
		Detection of banned amines		
		4 Amino Biphenyl	IS 15570:2005	5 mg/kg to 1000 mg/kg
		Benzidine		5 mg/kg to 1000 mg/kg
		4 Chloro-o- toluidine		5 mg/kg to 1000 mg/kg
		2-Naphthylamine		5 mg/kg to 1000 mg/kg
		P-Chloroaniline		5 mg/kg to 1000 mg/kg
		2,4, Diaminoanisole		5 mg/kg to 1000 mg/kg
		4,4,Diaminodiphenylmethane		5 mg/kg to 1000 mg/kg
		3,3 Dichlorobenzidine		5 mg/kg to 1000 mg/kg
		3,3 Dimethoxybenzidine		5 mg/kg to 1000 mg/kg
		3,3 Diethylbenzidine		5 mg/kg to 1000 mg/kg
		3,3, Dimethyl -4,4- diaminodiphenylmethane		5 mg/kg to 1000 mg/kg
		p-Cresidine		5 mg/kg to 1000 mg/kg
		4,4,Methylenebis (2- Chloroaniline)		5 mg/kg to 1000 mg/kg
		4,4, -Oxydianiline		5 mg/kg to 1000 mg/kg
		4,4, Thiodianiline		5 mg/kg to 1000 mg/kg
		O-Toluidine		5 mg/kg to 1000 mg/kg
		2,4,Toluyenendiamine		5 mg/kg to 1000 mg/kg
		2,4,5 Trimethylaniline		5 mg/kg to 1000 mg/kg
		p-amino Azo benzene		5 mg/kg to 1000 mg/kg

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	Fibre, Yarn, Fabrics, Garments & Madeups	2-Methoxyaniline 2,4, Xylidine 2,6, Xylidine		5 mg/kg to 1000 mg/kg 5 mg/kg to 1000 mg/kg 5 mg/kg to 1000 mg/kg
2.	Fabrics, Garments & Made ups	Fibre analysis : Quantitative (Mechanical separation)	TC/Lab/TM-14 AATCC 20 A – 2013	1% to 100%
		Resistance to Saliva	DIN 53160:1974	Qualitative (Grade 1 to 5)
		Dimensional Changes on soaking in water	IS: 2977:1989 (RA 2010) (other than wool woven & knitted) IS – 665-1989 (RA 2010) (for fabrics containing wool)	(-) 20% to (+) 20%
		Dimensional Changes of fabrics after home laundering	AATCC 135 –2012 ISO 6330 (B) – 2012	(-) 20% to (+) 20%
		Wettability of cotton fabrics	IS: 2349-1963 (RA 2010)	0.01s to 480 s
		Water repellency of fabrics by cone test	IS: 7941 –1976 (RA 2010)	Upto 350 ml
		Water repellency of fabrics by water spray test	IS: 390-1975 (RA 2008) AATCC 22-2010	Qualitative (0 to 100%)
		Water soluble matter	IS: 3456-1966 (RA 2010)	Upto 20 %
		Colour fastness to Water	IS 767:1988 (RA 2009) ISO 105-E01-2013 AATCC 107-2013	Qualitative (Grey scale rating 1 to 5)
		Colour fastness to Xenon Arc Lamp	AATCC 16.3 – 2012 IS 2454:1985 (RA 2010) ISO 105 B02 –2013 BSEN ISO 105 B02 –2000	Qualitative (Grade 1 to 5 Class 1 to 8 Class 1 to 8)

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	Fabrics, Garments & Made ups	Identification of dyes		
		Cotton and other cellulosic fibres	IS 4472 (Part 1): :1967 (RA 2010)	Qualitative
		Wool silk and other protein fibres	IS 4472:1968 Part-2 (RA 2006)	
		Manmade fibres	IS 4472:1973 Part-3 (RA 2010)	
		Formaldehyde extracted		
		Free & Hydrolyzed Released	ISO 14184-1-2011 ISO 14184- 2-2011 AATCC 112-2008	15 mg/kg to 1000 mg/kg
		Free & total	SFS 4996-1987 JISL 1041-1983	
3.	Metal Accessories for garments (Alloys and coatings)	Nickel release Screening test	CR 12471:2002	Qualitative (Detected/Not Detected)
II. WATER				
1.	Deionized Water	pH	ISO 3696: 1987	1 to 14
		Conductivity	ISO 3696: 1987	0.3 µS/cm to 1999 µS/cm
		Oxidisable matter	ISO 3696: 1987	Qualitative
		Residue after evaporation at 110°C	ISO 3696: 1987	0.25 mg/kg to 5 mg/kg
III. POLLUTION & ENVIRONMENT				
1.	Effluent	Bio chemical Oxygen Demand (BOD)	IS 3025 (Part 44):1993 (RA 1999)	2 mg/kg to 220 mg/kg

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	Effluent	Chemical Oxygen Demand (COD)	IS 3025 (Part 58):2006	5 mg/kg to 500 mg/kg
		Oil & Grease by partition gravimetric method	IS 3025 (Part-39): 1991 (RA 2003)	2 mg/kg to 100 mg/kg
		Non-filterable residue (Total suspended solids)	IS 3025 (Part-17): 1984 (RA 2006)	2 mg/kg to 100 mg/kg
		Dissolved Oxygen (DO)	IS 3025 (Part-38): 1989 (RA 1999)	1 mg/kg to 200 mg/kg

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