



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Wool Research Association-Textile Lab, P.O. Sandoz Baug, Kolshet Road, Thane, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5889 (in lieu of T-1224 & T-1225) **Page 1 of 15**

Validity 17.07.2017 to 16.07.2019 **Last Amended on** 12.01.2018

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.	TEXTILES (WOVEN & NON WOVEN)			
1.	Fibre, Yarn & Fabric	Colour Fastness to Washing with Soap and Soda	ISO 105 C10-2006 IS/ISO 105 C10-2006	Qualitative (Grade 1.0 to 5.0)
		Colour Fastness to Domestic and Commercial Laundry	ISO 105-C06 -2010 IS 13025-1991 (RA 2008) AS 2001.4.15-2006 (2016)	Qualitative (Grade 1.0 to 5.0)
		Colour Fastness to domestic and Commercial laundering using non-phosphate reference detergent incorporating a low temperature bleach activator	ISO 105 C08-2010	Qualitative (Grade 1.0 to 5.0)
		Colour Fastness to Laundry Accelerated	AATCC 61-2013, No. 1A-5A	Qualitative (Grade 1.0 to 5.0)
		Colour Fastness to Perspiration	ISO 105-E04-2013 IS 971-1983 (RA 1999) AATCC 15 : 2013 AS 2001.4.E04-2005(2016)	Qualitative (Grade 1.0 to 5.0)
		Colour Fastness to Rubbing	ISO 105-X12 :2016 IS 766-1988 (RA 2009)	Qualitative (Grade 1.0 to 5.0)
		Colour Fastness to Crocking	AATCC 8 :2013	Qualitative (Grade 1.0 to 5.0)
		Colour Fastness to artificial light: Xenon arc fading lamp test	ISO 105 B02 :2014 IS 2454 :1985 (RA 2010)	Qualitative (Grade 1.0 to 5.0)

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Convenor

N. Venkateswaran
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		Colour Fastness to Light	AATCC 16.3 :2014 AS/NZS 1906.4-2010 AS 2001.4.B02-2001 (RA 2016)	Qualitative (Grade 1.0 to 8.0)
		Colour Fastness to Hot pressing	ISO 105-X11:1994 AATCC 133:2013 IS 689-1988 (RA 2009)	Qualitative (Grade 1.0 to 5.0)
		Colour fastness to domestic and commercial laundering- Oxidative bleach response using non-phosphate reference detergent incorporating a low temperature bleach activator	ISO 105 C09:2001	Qualitative (Grade 1.0 to 5.0)
		Color Fastness to water	ISO 105-E01:2013 AATCC 107:2013 IS 767-1988 (RA 2009)	Qualitative (Grade 1.0 to 5.0)
		Colour Fastness to Dry Cleaning	ISO 105-D01:2010 AATCC 132:2013 IS 4802-1988 (RA 2010)	Qualitative (Grade 1.0 to 5.0)
		Colour Fastness Sea water	ISO 105-EO2-2013, IS 690-1988 (RA 2009)	Qualitative (Grade 1.0 to 5.0)
		Colour Fastness Organic solvents	IS 688-1988 (RA 2009)	Qualitative (Grade 1.0 to 5.0)
		Hypochlorite Bleaching	ISO 105 N01-1993 (RA2015)	Qualitative (Grade 1.0 to 5.0)
		Colour Performance of High-visibility warning clothing	AS/NZS 1906.4-2010 DIN EN ISO 20471:2013 EN 471:2003+A1: 2007 EN 1150:1999/IS 15809: 2008/ASTM E1164-12 (ANSI/ISEA 107-2015)	Chromaticity Coordinates x=0.1 up to 0.9 y=0.1 up to 0.9 Bmin= 0.1 up to 0.9 Qualitative

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		pH of Aqueous Extracts	IS 1390:1983 (RA 2009) ISO 3071:2005 AATCC-81-2012 IWTO 2-96	1 to 14
		Fatty Matter	IS 199:1989 (RA 2010) TWC TM136	Up to 20 %
		Scouring Loss	IS 1383-1977 RA 2009	Up to 10 %
		Wool content	IS 8476-1977 (RA 2010)	0.5 % to 100 %
		Fiber Identification	IS 667:1981 (RA 2008) AATCC 20-2013	Qualitative
		Grease content of Wool (By Soxhlet Apparatus)	IWTO-10-2003 TWC TM 136	Up to 10 %
		Blend Analysis	IS 3416 (Part 1): 1988 (RA 2008) ISO 1833-11-2006 AATCC-20A-2013 IS 2006:1988 (RA 2009) ISO 1833-4-2006 IS 3421:1988 (RA 2010) ISO 1833-12-2006 IS 1889 (Part 4): 1979 (RA 2010) IS 11870:1986 (2010) IS 9889:1988 (2010) IS 9896:1981(2008) IS 2176:1988 (2009) IS 2177:1988 (2009)	1 % to 100 %
		Total Size or Finish	IS 199:1989 (RA 2010)	Up to 30 %
		Water Soluble Matter	IS 3456:1966 (RA 2010)	Up to 20 %
		Ether Soluble Matter	IS 4390:2001 (RA 2012)	Up to 20 %
		Instrumental colour difference measurement (CMC: Calculation of	AATCC Test Method 173-2015 AATCC Test Method 182-2011	0.1 delta E to 10 delta E

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		Small Color Differences for Acceptability)	SAE J 1767-2014	
		Relative Color Strength of Dyes in Solution		
		Whiteness Index	AATCC 110-2015 ASTM E 313-15e1 & CIE	1 to 200
		Identification of Dyes	IS 4472 (Part 1): 1967	Qualitative
2.	Fabric (Woven/ Non Woven/ Knitted)	Vertical Flammability: Ease of Ignition of Vertically oriented Specimen	ISO 6940:2004 IS 15589:2005 IS 15612 (Part 3): 2005	0.1 sec to 99 sec
		Vertical Flammability: Flame Spread Properties of Vertically Oriented Specimen	IS 11871-1986 Procedure A (RA 2014) ASTM D 6413/D6413 M-2015	For after flame and afterglow: 0.1 sec to 3600 sec For Char Length 0 mm to 300mm
		45 Degree Flammability	ASTM D 1230-10 (RA2016) 16 CFR 1610: 2007 IS 11871-1986 Procedure B (RA 2004)	0.1 sec to 60 sec
		Horizontal Flammability	ISO 3795-1989 ASTM D 5132-11 IS 15061-2002 (RA 2006) SAE J 369- 2013	Up to 500mm/min
		Limited Flame Spread	ISO 15025:2000 IS 15758:2007 (Part 4)	For after flame and after glow: 0.1 sec to 3600 sec For Char Length: Up to 200mm
		Vertical Burning Behavior	IS 15612: 2005 (Part 4) ISO 6941-2003	0.1 sec to 99 sec
3.	Textile Material	Free Formaldehyde	IS 14563 (Part 1): 1998 (RA 2008) ISO 14184-1-2011	20 mg/kg to 3500 mg/kg

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		Releasable Formaldehyde	IS 14563 (Part 2): 1999 ISO 14184-2-2011 AATCC-112-2014	20 mg/kg to 3500 mg/kg
4.	Wool & its Products Others - Sliver, Scoured Wool and Carbonized Wool	Dichloromethane soluble matter in combed wool and commercially scoured or carbonized wool	IWTO 10 TWC TM 136	0.1 % to 20 %

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