

Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Modern Testing Services (India) Private Limited

No. 16-C, Ramraj Nagar, 80 Feet Road, Gandhi Nagar, Avinashi Road,
Tirupur-641603, Tamil Nadu, India

has been assessed and accredited in accordance with the Standard
ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of
Testing

This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.



QAI/CIA/TL/2024/0074

Valid from: 29 August 2024

Valid until: 28 August 2026

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Leather & Footwear		
1.	Leather products and its accessories	Colour fastness to crocking (Crockmeter)	SATRA TM 167: 2017 ISO 20433: 2012 ASTM D5053: 2003
2.	Leather products and its accessories	Colour fastness to perspiration - (Perspirometer)	ISO 11641: 2012 BS EN ISO 11641: 2012 EN ISO 11641: 2012 DIN EN ISO 11641: 2012 ISO 17700: 2019 Method C SATRA TM 335: 2018
3.	Leather products and its accessories	Colour fastness to water	ISO 11642: 2012 BE EN ISO 11642: 2012 EN ISO 1642: 2012 DIN EN ISO 11642: 2012 SATRA TM 335: 2018
4.	Leather products and its accessories	Colour fastness to water spotting	ISO 15700: 1998 BS EN ISO 15700: 1998 EN ISO 15700: 1998 DIN EN ISO 15700: 1998 SATRA TM 185: 2021
5.	Leather products and its accessories	Colour fastness to rubbing (Veslic Rubbing)	ISO 11640: 2018 BS EN ISO 11640: 2018 EN ISO 11640: 2018 DIN EN ISO 11640: 2018 ISO 17700: 2019 Method A SATRA TM 173: 2021

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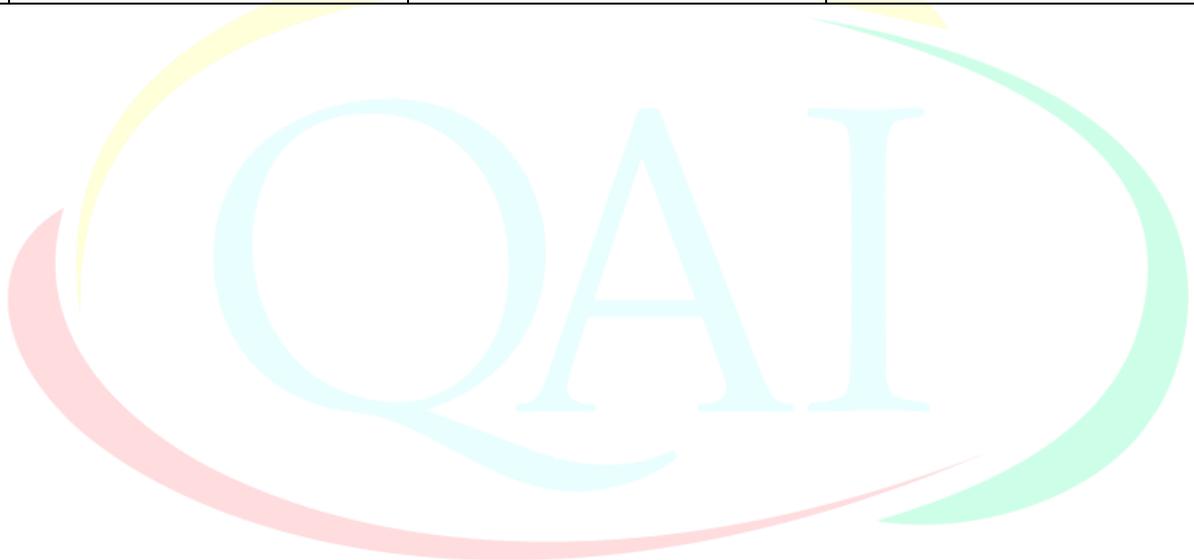
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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Leather & Footwear		
6.	Leather products and its accessories	Colourfastness to light from a xenon arc	SATRA TM 160: 1992
7.	Metal accessories in leather & footwear products	Corrosion resistance	ISO 22775: 2004 (Method 2) SATRA TM 310: 2020 Method 2



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
1.	Medical face masks	Clothing for protection against infectious agents - medical face masks-test method for resistance against penetration by synthetic blood	ISO 22609: 2004
2.	Medical face masks	Resistance of materials used in protective clothing to penetration by synthetic blood	ASTM F1670/F1670M: 2017a
3.	Medical face masks	Resistance to protective clothing materials to penetration by blood & body fluids	ISO 16603: 2004
4.	Medical face masks	Standard test method for resistance of medical face masks to penetration by synthetic blood	ASTM F1862/1862M: 2017
5.	Surgical face masks	Breathing resistance	EN 14683 Annex C: 2019
6.	Surgical face masks	Medical textiles - surgical face mask: splash resistance	IS 16289 Annex D: 2014
7.	Surgical face masks	Medical textiles: Breathability	IS 16289 Annex C: 2014

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
8.	Fabrics, garments & apparel	Resistance of protective clothing materials to penetration by blood and body fluids - test method using synthetic blood	IS 16546: 2016
9.	Fabrics, garments & apparel	Resistance to water penetration: Hydrostatic Pressure test	ISO 811: 2018
10.	Apparel and textiles	Fiber analysis: Qualitative	AATCC TM 20-2021
11.	Apparel and textiles	Fiber analysis: Quantitative	AATCC TM 20A-2021e
12.	Apparel and textiles	Fiber composition	IS 667: 1981
13.	Apparel and textiles	Fiber content	Regulation EU 1007: 2011
14.	Apparel and textiles	Quantitative analysis of fibre mixture	BS 4407: 1988 AS 2001.7: 2005 (R2016)
15.	Apparel and textiles	Quantitative chemical analysis - Part 1: General principles of testing	ISO 1833-1: 2020 BS EN ISO 1833-1: 2020 SASO ISO 1833-1: 2006
16.	Apparel and textiles	Quantitative chemical analysis - Part 2: Ternary fibre mixtures	ISO 1833-2: 2020 BS EN ISO 1833-2: 2020 SASO ISO 1833-2: 2006



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
17.	Apparel and textiles	Quantitative chemical analysis - Part 4: Mixtures of certain Protein fibres with certain other fibres (method using Hypochlorite)	ISO 1833-4: 2017 BS EN ISO 1833-4: 2017 SASO ISO 1833-4: 2018
18.	Apparel and textiles	Quantitative chemical analysis - Part 5: Mixtures of viscose, Cupro or Modal and Cotton fibres (method using Sodium Zincate)	ISO 1833-5: 2006 BS EN ISO 1833-5: 2010 SASO ISO 1833-5: 2014
19.	Apparel and textiles	Quantitative chemical analysis - Part 7: Mixtures of polyamide with certain other fibres (method using formic acid)	ISO 1833-7: 2017 BS EN ISO 1833-7: 2017 SASO ISO 1833-7: 2018
20.	Apparel and textiles	Quantitative chemical analysis Part 11: Mixtures of certain cellulose fibres with certain other fibres (method using sulfuric acid)	ISO 1833-11: 2017 BS EN ISO 1833-11: 2017 SASO ISO 1833-11: 2006
21.	Apparel and textiles	Quantitative chemical analysis - Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastane fibres with certain other fibres	ISO 1833-12: 2020 BS EN ISO 1833-12: 2020 SASO ISO 1833-12: 2006

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
		(method using Dimethylformamide)	
22.	Apparel and textiles	Quantitative chemical analysis Part 25: Mixtures of Polyester and certain other fibres (method using Trichloroacetic acid and Chloroform)	ISO 1833-25: 2013 BS EN ISO 1833-25: 2015 SASO ISO 1833-25: 2006
23.	Apparel and textiles	Colour fastness to light: Xenon-Arc	AATCC TM 16.3 [Option 3]-2023
24.	Finished fabric, garments & apparels, carpet & rugs, terry fabrics & its products	Colour fastness to artificial light	ISO 105-B02 [Exposure Cycle A1]: 2014 BS EN ISO 105-B02: 2014 AS 2001.4 B02: 2001
25.	Finished fabric, garments & apparels, carpet & rugs, terry fabrics & its products	Colour fastness to perspiration and light	AATCC TM 125-2013e2 (2020)
26.	Finished fabric, garments & apparels, carpet & rugs, terry fabrics & its products	Colour fastness to light and perspiration	ISO 105-B07: 2009 BS EN ISO 105-B07: 2009
27.	Apparel and textiles	Colour fastness to laundering: accelerated	AATCC TM 61-2013e (2020) e2
28.	Finished fabric, garments & apparels, carpet & rugs, terry fabrics & its products	Colour fastness to domestic and commercial laundering	ISO 105-C06: 2010 BS EN ISO 105-C06: 2010 AS 2001.4.15: 2016

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
29.	Finished fabric, garments & apparels, carpet & rugs, terry fabrics & its products	Colour fastness to domestic and commercial laundering using a non-phosphate reference detergent incorporating a low-temperature bleach activator	ISO 105-C08: 2010 BS EN ISO 105-C08: 2010
30.	Apparel and textiles	Colour fastness to domestic and commercial laundering - Oxidative bleach response using a non-phosphate reference detergent incorporating a low temperature bleach activator	ISO 105-C09: 2003 BS EN ISO 105-C09: 2003
31.	Finished fabric, garments & apparels, carpet & rugs, terry fabrics & its products	Colour fastness to washing with soap or soap and soda	ISO 105-C10: 2006 BS EN ISO 105-C10: 2007
32.	Apparel and textiles	Colour fastness to drycleaning	AATCC TM 132-2004e2 (2013) e3
33.	Apparel and textiles	Colour fastness to dry-cleaning using perchloroethylene solvent (ISO 105-D01:2010)	ISO 105-D01: 2010 BS EN ISO 105-D01: 2010
34.	Apparel and textiles	Colour fastness to water	AATCC TM 107-2022e
35.	Apparel and textiles	Colour fastness to water (ISO 105-E01:2013)	ISO 105-E01: 2013 BS EN ISO 105-E01: 2013
36.	Apparel and textiles	Colour fastness to water: Sea	AATCC TM 106-2009e (2013) e2

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
37.	Apparel and textiles	Colour fastness to sea water (ISO 105-E02: 2013)	ISO 105-E02: 2013 BS EN ISO 105-E02: 2013
38.	Apparel and textiles	Colour fastness to water: chlorinated pool	AATCC TM 162-2011e2
39.	Finished fabric, garments & apparels, carpet & rugs, terry fabrics & its products	Colour fastness to chlorinated water (swimming-pool water)	ISO 105-E03: 2010 BS EN ISO 105-E03: 2010
40.	Apparel and textiles	Colour fastness to perspiration	AATCC TM 15-2021e
41.	Apparel and textiles	Colour fastness to perspiration	ISO 105-E04: 2013 BS EN ISO 105-E04: 2013
42.	Apparel and textiles	Colour fastness to water spotting	AATCC TM 104-2010 (2014) e2
43.	Apparel and textiles	Colour fastness to spotting: water	ISO 105-E07: 2010 BS EN ISO 105-E07: 2010
44.	Apparel and textiles	Colour fastness to bleaching: Hypochlorite	ISO 105-N01: 1993 BS EN 20105-N01: 1995
45.	Apparel and textiles	Colour fastness to organic solvent	ISO 105-X05: 1994 BS EN ISO 105-X05: 1997
46.	Apparel and textiles	Colour fastness to crocking: Crockmeter method	AATCC TM 8-2016e (2022) e
47.	Apparel and textiles	Colour fastness to rubbing	ISO 105-X12 (Excluding 4.1.1): 2016 BS EN ISO 105-X12: 2016 AS 2001.4.3: 2016

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
48.	Apparel and textiles	Colour fastness to crocking: rotary vertical Crockmeter method	AATCC TM 116-2018e (2022) e
49.	Apparel and textiles	Colour fastness to rubbing small areas	ISO 105-X16: 2016 BS EN ISO 105-X16: 2016
50.	Apparel and textiles	Colour fastness to phenolic yellowing	ISO 105-X18: 2007 BS EN ISO 105-X18: 2007
51.	Finished fabric, garments & apparels, carpet & rugs, terry fabrics & its products	Colour fastness to saliva	DIN 53160-1: 2010, DIN 53160-2: 2010, DIN 53160:2010 Section 35 LMBG 82.10, GB/T 18886: 2019
52.	Fabric, garment & made ups	Dimensional changes of fabrics after home laundering	AATCC TM 135-2018te
53.	Fabric, garment & made ups	Dimensional changes of garments after home laundering	AATCC TM 150-2018t
54.	Fabric, garment & made ups	Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change	ISO 3759: 2011 EN ISO 3759: 2011 BS EN ISO 3759: 2011 NF EN ISO 3759: 2011
55.	Fabric, garment & made ups	Domestic washing and drying procedures for textile testing	ISO 6330: 2021 EN ISO 6330: 2021 BS EN ISO 6330: 2021 NF EN ISO 6330: 2021 AS 2001 5.4 2005

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
56.	Fabrics, garments & apparel	Determination of dimensional change in washing and drying	ISO 5077: 2007 EN ISO 5077: 2008 BS EN ISO 5077: 2008 NF EN ISO 5077: 2008 SASO 2140: 2003
57.	Apparel and textiles	Retention of creases in fabrics after repeated home laundering	AATCC TM 88C-2018te
58.	Apparel and textiles	Smoothness of seams in fabrics after repeated home laundering	AATCC TM 88B-2018te
59.	Apparel and textiles	Smoothness appearance of fabrics after repeated home laundering	AATCC TM 124-2018te
60.	Apparel and textiles	Appearance of apparel and other textile end products after repeated home laundering	AATCC TM 143-2018te
61.	Apparel and textiles	Test method for assessing the smoothness appearance of fabrics after cleansing	ISO 7768: 2009 BS ISO 7768: 2009
62.	Apparel and textiles	Test method for assessing the appearance of creases in fabrics after cleansing	ISO 7769: 2009 BS ISO 7769: 2009
63.	Fabric, garment & made ups	Method for assessing appearance of apparel and	ISO 15487: 2018 BS EN ISO 15487: 2010 NF EN ISO 15487: 2018

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
		other textile end products after domestic washing and drying	
64.	Fabric, garment & made ups	Skewness change in fabric and garment twist resulting from automatic home laundering	AATCC TM 179-2023
65.	Garment	Seam twist in garments before and after home laundering	AATCC TM 207-2019
66.	Fabric, garment & made ups	Spirality after laundering, part 1: percentage of wale spirality change in knitted garments	ISO 16322-1: 2005 BS ISO 16322-1: 2005
67.	Fabric, garment & made ups	Spirality after laundering - part 2: woven and knitted fabrics	ISO 16322-2: 2021 BS ISO 16322-2: 2021
68.	Fabric, garment & made ups	Spirality after laundering, part 3: woven and knitted garments	ISO 16322-3: 2021 BS ISO 16322-3: 2021
69.	Fabrics	Standard test method for bow and skew in woven and knitted fabrics	ASTM D 3882-08 (2020)
70.	Apparel and textiles	Water repellency: spray test	AATCC TM 22-2017e
71.	Apparel and textiles	Resistance to surface wetting (spray test) of fabrics	ISO 4920: 2012 EN ISO 4920: 2012 BS EN ISO 4920: 2012 BS EN 24920: 1992

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
72.	Fabric, garment & made ups	Water resistance: impact penetration	AATCC TM 42-2017e
73.	Fabric, garment & made ups	Absorbency of textiles	AATCC TM 79-2010e (2018) e
74.	Fabric, garment & made ups	Water resistance: hydrostatic pressure test	AATCC TM 127 Option 2 – 2017 (2018) e
75.	Textile – fabric, garment & apparels	Colour fastness to light	NEXT TM1
76.	Textile – fabric, garment & apparels	Colour fastness to washing	NEXT TM2
77.	Textile – fabric, garment & apparels	Cross staining to water	NEXT TM2a
78.	Textile – fabric, garment & apparels	Colour fastness to dry cleaning	NEXT TM3
79.	Textile – fabric, garment & apparels	Cross staining to dry cleaning	NEXT TM3a
80.	Textile – fabric, garment & apparels	Colour fastness to water	NEXT TM4
81.	Textile – fabric, garment & apparels	Cross staining to water	NEXT TM4a
82.	Textile – fabric, garment & apparels	Colour fastness to chlorinated water	NEXT TM5
83.	Textile – fabric, garment & apparels	Colour fastness to rubbing	NEXT TM6

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
84.	Textile – fabric, garment & apparels	Print durability	NEXT TM7
85.	Textile – fabric, garment & apparels	Embellishment durability (children's wear)	NEXT TM7a
86.	Textile – fabric, garment & apparels	Embellishment assessment after 5X label washes	NEXT TM7b
87.	Textile – fabric, garment & apparels	Foil durability	NEXT TM7c
88.	Textile – fabric, garment & apparels	Durawash appearance after washing	NEXT TM8
89.	Textile – fabric, garment & apparels	Appearance assessment after washing	NEXT TM9
90.	Textile – fabric, garment & apparels	Polar fleece assessment	NEXT TM11
91.	Textile – fabric, garment & apparels	Dimensional stability to washing	NEXT TM12
92.	Textile – fabric, garment & apparels	Spirality	NEXT TM13
93.	Textile – fabric, garment & apparels	Spray rating	NEXT TM23
94.	Textile – fabric, garment & apparels	pH of aqueous extract	NEXT TM33
95.	Textile – fabric, garment & apparels	Colour fastness to phenolic yellowing	NEXT TM43

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
96.	Textile – fabric, garment & apparels	Colour fastness to saliva	NEXT TM48
97.	Textile – fabric, garment & apparels	Corrosion	NEXT TM49
98.	Textile – fabric, garment & apparels	Towel absorption	NEXT TM50
99.	Textile – fabric, garment & apparels	Colour fastness to sea water	NEXT TM51
100.	Textile – fabric, garment & apparels	Colour fastness to perspiration	NEXT TM52
101.	Textile – fabric, garment & apparels	Colour fastness to oxidative bleach	NEXT TM55
102.	Textile – fabric, garment & apparels	Moisture management	NEXT TM58
103.	Textile – fabric, garment & apparels	Pile loss during washing	NEXT TM61
104.	Textile – fabric, garment & apparels	Total absorption	NEXT TM66



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
1.	Leather	Aromatic Amines derived from Azo Colorants– 1) 2 - methoxy-5- methylaniline 2) 2,4- Dimethylaniline 3) 2,4,5- Trimethylaniline 4) 2,4- Diaminotoluene 5) 2,6- Dimethylaniline 6) 3,3- Dichlorobenzidine 7) 3,3- Dimethoxybenzidine 8) 4,4-Benzidine 9) 4,4-methylene- Bis (ochloroaniline) 10) 4,4- methylenedianiline 11) 4,4- Oxydianiline, 12) 4,4- Thiodianiline, 13) 4- Aminobiphenyl, 14) 4-methoxy-1,3- phenylenediamine, 15) 5-Nitro-O- Toluidine, 16) b- Naphthylamine, 17) O Toluidine, 18) O aminoazotoluene, 19) 3,3- Dimethylbenzidine 20) O anisidine 21) 4- chloro-2- methylaniline	EN ISO 17234-1:2020 GB/T 19942:2019, IS 14816:2000, ChemST IHTM / SOP-0040-2025 (Ver-01)



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	Hazardous and Restricted Chemicals		
		22) 4-Chloroaniline 23) 3,3-Dimethyl-4,4-diamino diphenylmethane	
2.	Leather	p-Aminoazobenzene	EN ISO 17234-2:2011 GB/T 33392:2016
3.	Leather	Alkyl Phenols – 1) 4-n Amyl Phenol 2) 4-Tert Amyl Phenol 3) Heptyl Phenol 4) 4 n-Nonyl Phenol 5) 4 n-Octyl Phenol 6) 4-Tert Pentyl Phenol 7) Nonyl Phenol 8) 4 tert-Octyl Phenol	ISO 21084:2019, ChemST IHTM / SOP-0040-2025 (Ver-01)
4.	Leather	Alkylphenol ethoxylates (APEO)- 1) Nonyl Phenol Ethoxylate 2) Octyl Phenol Ethoxylate (OPEO)	EN ISO 18218-1:2023, ChemST IHTM / SOP-0040-2025 (Ver-01)
5.	Leather	Formaldehyde content	ISO 17226-1:2021, ChemST IHTM / SOP-0040-2025 (Ver-01)
6.	Leather	pH Value	ISO 4045:2018, ChemST IHTM / SOP- 0040-2025 (Ver-01)
7.	Leather	Chromium VI	ISO 17075:1:2017 ChemST IHTM / SOP-0040-2025 (Ver- 01)

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Tirupur-641603, Tamil Nadu, India

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Accreditation Standard: **ISO/IEC 17025:2017**

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
8.	Leather	Dimethyl Fumarate	ISO 16186:2021 ChemST IHTM / SOP-0040-2025 (Ver-01)
9.	Leather	Chlorinated phenols: 1) 2,3,4-Trichlorophenol (TriCP) 2) 2,3,5-Trichlorophenol (TriCP) 3) 2,3,6-Trichlorophenol (TriCP) 4) 2,4,5-Trichlorophenol (TriCP) 5) 2,4,6-Trichlorophenol (TriCP) 6) 3,4,5-Trichlorophenol (TriCP) 7) 2,3,4,5-Tetrachlorophenol (TeCP) 8) 2,3,4,6-Tetrachlorophenol (TeCP) 9) 2,3,5,6-Tetrachlorophenol (TeCP) 10) Pentachlorophenol (PCP) & its salts & esters 11) 2-Chlorophenol 12) 3- Chlorophenol 13) 4- Chlorophenol 14) 2,4-DiChlorophenol 15) 2,5-DiChlorophenol 16) 2,3-DiChlorophenol 17) 2,6-DiChlorophenol 18) 3,5-DiChlorophenol 19) 3,4-DiChlorophenol 20) 4 Chloro 3-methylphenol	EN 17134-2:2023 EN ISO 17070:2015 ChemST IHTM / SOP-0040-2025 (Ver-01)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		21) Orthophenylphenol	
10.	Paint and surface coating in leather	Lead (Pb) in paint and other similar surface coatings	16 CFR 1303; CPSCCH-E1003-09.1:2011 ISO 17072-1:2019
11.	Apparel (leather)	Detection of disperse dyestuffs- 1) Acid Red 114 2) Acid Red 26 3) Acid Violet 49 4) Basic Blue 26 5) Basic Green 4 6) Basic Red 9 7) Basic Violet 1 8) Basic Violet 3 9) Basic Violet 14 10) Direct Black 38 11) Direct Blue 6 12) Direct Blue 15 13) Direct Blue 218 14) Direct Brown 95 15) Direct Red 28 16) Disperse Blue 35 17) Disperse Blue-1 18) Disperse Blue-3 19) Disperse Blue-7 20) Disperse Blue 26	DIN 54231: 2022; ISO 16373-1:2015; ISO 16373-2:2014; ISO 16373-3:2014; ChemST IHTM / SOP-0040-2025 (Ver-01)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		21) Disperse Blue 102 22) Disperse Blue 106 23) Disperse Blue 124 24) Disperse Blue 291 25) Disperse Brown 1 26) Disperse Orange 1 27) Disperse Orange-3 28) Disperse Orange 11 29) Disperse Orange 37 30) Disperse Orange 61 31) Disperse Orange 149 32) Disperse Red 1 33) Disperse Red 11 34) Disperse Red 17 35) Disperse Red 151 36) Disperse Violet 1 37) Disperse Yellow 1 38) Disperse Yellow 3 39) Disperse Yellow 7 40) Disperse Yellow 9 41) Disperse Yellow 23 42) Disperse Yellow-39 43) Disperse Yellow 49 44) Disperse Yellow 56 45) Malachite Green D5 Oxalate	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		46) Molybdate Orange 47) Navy Blue 48) Pigment Red 104 49) Pigment Yellow 34 50) Solvent Yellow 14/Sudan 1	
12.	Metal parts in leather products	Nickel release	BS EN 1811: 2023 EN 12472:2020, ChemST IHTM / SOP-0040-2025 (Ver-01)
13.	Metal parts in leather products	Nickel spot test	PD CR 12471:2022, ChemST IHTM / SOP-0040-2025 (Ver-01)
14.	Leather packaging materials	Heavy Metal in Packaging material Cadmium Chromium Lead Mercury	CEN/TR 13695-1:2000



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
15.	Leather and its accessories	Extractable (or) Migration of Certain elements- 1) Aluminium 2) Antimony 3) Arsenic 4) Barium 5) Boron 6) Cadmium 7) Chromium 8) Cobalt 9) Copper 10) Lead 11) Manganese 12) Mercury 13) Nickel 14) Selenium 15) Strontium 16) Tin 17) Zinc	BS EN 71-3: 2019+A1:2021 IS 9873-3:2020
16.	Leather and its accessories	Extractable metal content - 1) Antimony 2) Arsenic 3) Barium	EN 16711 –2:2015 ISO 17072-1:2019 ChemST IHTM / SOP-0040-2025 (Ver-01)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		4) Cadmium 5) Chromium 6) Cobalt 7) Copper 8) Lead 9) Mercury 10) Nickel 11) Selenium	
17.	Leather and its accessories	Total Heavy Metals – 1) Aluminium 2) Antimony 3) Arsenic 4) Barium 5) Boron 6) Cadmium 7) Chromium 8) Cobalt 9) Copper 10) Lead 11) Iron 12) Manganese 13) Mercury 14) Nickel	ASTM F963:2023 EN16711-1:2015 ISO 17072-2:2022 ChemST IHTM / SOP-0040-2025 (Ver-01)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		15) Selenium 16) Silver 17) Strontium 18) Tin 19) Zinc	
18.	Leather and its accessories	Phthalates – 1) 1,2 Benzenedicarboxylic Acid, Dipentyl Ester Branched and Linear 2) BenzylButylPhthalate (BBP) 3) Butyl octyl Phthalate (BOP) 4) Di-(2-ethylhexyl) phthalate (DEHP) 5) Di-(2-methoxyethyl) Phthalate (DMEP) 6) Dibutyl Phthalate (DBP) 7) Di-Cyclohexyl phthalate (DCHP) 8) Diethyl Phthalate (DEP) 9) Di-heptyl, Nonyl, Undecyl Phthalate (DHNUP) 10) Di-isobutylPhthalate (DIBP) 11) Di-isodecylphthalate (DIDP) 12) Di-isoheptyl Phthalate (DIHP) 13) Di-isohexyl Phthalate	CPSC-CH-C1001-09-4: 2018; EN ISO 16181-1:2021, ChemST IHTM / SOP-0040-2025 (Ver-01)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		14) Di-isononylphthalate (DINP) 15) Di-isoOctyl phthalate (DIOP) 16) Di-isopentylphthalate (DIPP) 17) Dimethyl Phthalate (DMP) 18) Di-nhexylPhthalate (DnHP) 19) Di-n-octyl phthalate (DnOP) 20) Dinonylphthalate(DNP) 21) Di-npentylPhthalate (DNPP) 22) Di-n-Propylphthalate (DPRP) 23) N-pentyliso-pentylPhthalate (IPNPP) 24) Bis(2-ethylhexyl) tetrabromophthalate	
19.	Leather and its accessories (print, coating, plastic, PVC items)	Organotin compounds – 1) Bis Tri Butyl Tin Oxide 2) Di Butyl Tin Di Chloride 3) Di n Octyl Tin DI Chloride 4) Di n Propyl Tin Chloride 5) Di Phenyl Tin Di Chloride 6) Methyl Tin Tri Chloride 7) Mono Phenyl Tin Tri Chloride 8) n Butyl Tin Tri Chloride 9) Octyl Tin Tri chloride 10) Tetra Butyl Tin	CEN ISO 16179:2012 EN ISO 22744-1:2020 ISO 17353:2004 ChemST IHTM / SOP-0040-2025 (Ver-01)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		11) Tetra Ethyl Tin 12) Tri Butyl Tin Chloride 13) Tri Cyclo Hexyl Tin Chloride 14) Tri Methyl Tin Chloride 15) Tri n Propyl Tin Chloride 16) Tri Octyl Tin Chloride 17) Di Methyl Tin Di Chloride 18) Tri phenyl tin Chloride	
20.	Leather and its accessories (plastic, polymer, rubber, leather & other materials)	Polycyclic Aromatic Hydrocarbons 1) Acenaphthene 2) Acenaphthylene 3) Anthracene 4) Benzo(a)anthracene 5) Benzo(a)pyrene 6) Benzo(b)fluoranthene 7) Benzo(e)pyrene 8) Benzo(g,h,i)perylene 9) Benzo(j)fluoranthene 10) Benzo(k)fluoranthene 11) Chrysene 12) Di Benzo(a,h)Anthracene 13) Fluoranthene 14) Fluorene	AFPS GS.2019:01 PAK; EN 17132:2019; ISO 16190:2021; ChemST IHTM / SOP-0040-2025 (Ver-01)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		15) Indeno (1,2,3- cd) Pyrene 16) Naphthalene 17) Phenanthrene 18) Pyrene	
21.	Leather and its accessories	Bisphenols: 1) Bisphenol-A 2) Bisphenol S 3) Bisphenol B 4) Bisphenol F 5) Bisphenol-AF	ISO 11936: 2023 ChemST IHTM / SOP-0040-2025 (Ver-01)
22.	Textiles	Aromatic Amines derived from Azo Colorants- 1) 2,4- Diaminotoluene 2) 2,4- Dimethylaniline 3) 2,6- Dimethylaniline 4) 2-methoxy- 5- methylaniline 5) 3,3- Dichlorobenzidine 6) 3,3- Dimethoxybenzidine 7) 3,3- Dimethyl-4,4- diaminodiphenylmethane 8) 3,3- Dimethylbenzidine 9) 4- Aminobiphenyl 10) 4- Chloroaniline	EN ISO 14362-1:2017 GB/T 17592:2011

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		11) 4,4- Benzidine 12) 4,4- methylene-Bis(ochloroaniline) 13) 4,4- methylenedianiline 14) 4,4- Thiodianiline 15) 4-chloro-2- methylaniline 16) 4-methoxy- 1,3- phenylenediamine 17) 5-Nitro- O-Toluidine 18) b- Naphthylamine 19) O aminoazotoluene 20) O Anisidine 21) O Toluidine 22) 2,4,5- Trimethylaniline 23) 4,4- Oxydianiline	
23.	Textiles	p-Aminoazobenzene	EN ISO 14362-3:2017 GB/T 23344: 2009
24.	Textiles	Alkyl Phenols – 1) 4-n Amyl Phenol 2) 4-Tert Amyl Phenol 3) Heptyl Phenol 4) 4 n-Nonyl Phenol 5) 4 n-Octyl Phenol	ISO 21084:2019



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		6) 4-Tert Pentyl Phenol 7) Nonyl Phenol 8) 4 tert-Octyl Phenol	
25.	Textiles	Alkylphenol ethoxylates (APEO)- 1) Nonyl Phenol Ethoxylate 2) Octyl Phenol Ethoxylate (OPEO)	ISO 18254-1:2016
26.	Textiles	Free and hydrolyzed formaldehyde	BS EN ISO-14184- 1:2011 JIS-L-1041:2011
27.	Textiles	Released formaldehyde	ISO -14184-2:2011
28.	Textiles	Formaldehyde spot test	AATCC TM 94-2020 ChemST IHTM / SOP-0040-2025 (Ver-01)
29.	Finished fabric, garments & apparels, carpet & rugs, terry fabrics & its products (accessories)	pH of the water- Extract from wet processed Textiles	AATCC TM 81-2022
30.	Finished fabric, garments & apparels, carpet & rugs, terry fabrics & its products (accessories)	pH of aqueous Extract	ISO 3071: 2020
31.	Textiles	Lead in surface coating	CPSC-CH-E1003-09.1: 2011 16 CFR 1303: 2024

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
32.	Textiles	Cadmium by wet decomposition method	EN 1122:2001
33.	Textiles	Odour	GB 18401:2010
34.	Textiles	PVC	Beilstein method
35.	Textiles	Chlorinated Phenols: 1) 2,3,4-Trichlorophenol (TriCP) 2) 2,3,5-Trichlorophenol (TriCP) 3) 2,3,6-Trichlorophenol (TriCP) 4) 2,4,5-Trichlorophenol (TriCP) 5) 2,4,6-Trichlorophenol (TriCP) 6) 3,4,5-Trichlorophenol (TriCP) 7) 2,3,4,5-Tetrachlorophenol (TeCP) 8) 2,3,4,6-Tetrachlorophenol (TeCP) 9) 2,3,5,6-Tetrachlorophenol (TeCP) 10) Pentachlorophenol (PCP) & its salts & esters 11) 2-Chlorophenol 12) 3- Chlorophenol 13) 4- Chlorophenol 14) 2,4-DiChlorophenol 15) 2,5-DiChlorophenol 16) 2,3-DiChlorophenol 17) 2,6-DiChlorophenol 18) 3,5-DiChlorophenol	EN 17134-2:2023. DIN 50009:2021;

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		19) 3,4-Dichlorophenol 20) 4 Chloro 3-methylphenol 21) Orthophenylphenol	
36.	Textiles	Textiles - Detection of disperse dyestuffs- 1) Acid Red 114 2) Acid Red 26 3) Acid Violet 49 4) Basic Blue 26 5) Basic Green 4 6) Basic Red 9 7) Basic Violet 1 8) Basic Violet 3 9) Basic Violet 14 10) Direct Black 38 11) Direct Blue 6 12) Direct Blue 15 13) Direct Blue 218 14) Direct Brown 95 15) Direct Red 28 16) Disperse Blue 35 17) Disperse Blue-1 18) Disperse Blue-3 19) Disperse Blue-7	DIN 54231: 2022; ISO 16373-1:2015; ISO 16373-2:2014; ISO 16373-3:2014;

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		20) Disperse Blue 26 21) Disperse Blue 102 22) Disperse Blue 106 23) Disperse Blue 124 24) Disperse Blue 291 25) Disperse Brown 1 26) Disperse Orange 1 27) Disperse Orange-3 28) Disperse Orange 11 29) Disperse Orange 37 30) Disperse Orange 61 31) Disperse Orange 149 32) Disperse Red 1 33) Disperse Red 11 34) Disperse Red 17 35) Disperse Red 151 36) Disperse Violet 1 37) Disperse Yellow 1 38) Disperse Yellow 3 39) Disperse Yellow 7 40) Disperse Yellow 9 41) Disperse Yellow 23 42) Disperse Yellow-39	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		43) Disperse Yellow 49 44) Disperse Yellow 56 45) Malachite Green D5 Oxalate 46) Molybdate Orange 47) Navy Blue 48) Pigment Red 104 49) Pigment Yellow 34 50) Solvent Yellow 14/Sudan 1	
37.	Metal parts in textile products	Nickel Release	BS EN 1811: 2023 EN 12472:2020
38.	Metal parts in textile products	Nickel spot test	PD CR 12471:2022
39.	Textile packaging materials	Heavy Metal in Packaging material Cadmium Chromium Lead Mercury	CEN/TR 13695-1:2000
40.	Textile accessories	Extractable (or) Migration of Certain elements 1) Aluminium 2) Antimony 3) Arsenic 4) Barium	BS EN 71-3: 2019+A1:2021 IS 9873-3:2020

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		5) Boron 6) Cadmium 7) Chromium 8) Cobalt 9) Copper 10) Lead 11) Manganese 12) Mercury 13) Nickel 14) Selenium 15) Strontium 16) Tin 17) Zinc	
41.	Textile accessories	Extractable metal content - 1) Antimony 2) Arsenic 3) Barium 4) Cadmium 5) Chromium 6) Cobalt 7) Copper 8) Lead 9) Mercury	EN 16711 -2:2015 ISO 17072-1:2019



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		10) Nickel 11) Selenium	
42.	Textile accessories	Total Heavy Metals – 1) Aluminium 2) Antimony 3) Arsenic 4) Barium 5) Boron 6) Cadmium 7) Chromium 8) Cobalt 9) Copper 10) Lead 11) Iron 12) Manganese 13) Mercury 14) Nickel 15) Selenium 16) Silver 17) Strontium 18) Tin 19) Zinc	ASTM F963:2023 EN16711-1:2015 ISO 17072-2:2022



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
43.	Textiles and its accessories (print, coating, plastic, PVC items)	Phthalates – 1) 1,2 Benzenedicarboxylic Acid, Dipentyl Ester Branched and Linear 2) BenzylButylPhthalate (BBP) 3) Butyl octyl Phthalate (BOP) 4) Di-(2-ethylhexyl) phthalate (DEHP) 5) Di-(2-methoxyethyl) Phthalate (DMEP) 6) Dibutyl Phthalate (DBP) 7) Di-Cyclohexyl phthalate (DCHP) 8) Diethyl Phthalate (DEP) 9) Di-heptyl, Nonyl, Undecyl Phthalate (DHNUP) 10) Di-isobutylPhthalate (DIBP) 11) Di-isodecylphthalate (DIDP) 12) Di-isoheptyl Phthalate (DIHP) 13) Di-isohexyl Phthalate 14) Di-isononylphthalate (DINP) 15) Di-isoOctyl phthalate (DIOP) 16) Di-isopentylphthalate (DIPP) 17) Dimethyl Phthalate (DMP) 18) Di-nhexylPhthalate (DnHP)	CPSC-CH-C 1001- 09-4: 2018; EN 14372:2004; EN ISO 14389:2022



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		19) Di-n-octyl phthalate (DnOP) 20) Dinonylphthalate(DNP) 21) Di-npentyPhthalate (DNPP) 22) Di-n-Propylphthalate (DPRP) 23) N-pentyliso-pentylPhthalate (IPNPP) 24) Bis(2-ethylhexyl) tetrabromophthalate	
44.	Textile and its accessories (print, coating, plastic, PVC items)	Organotin compounds – 1) Bis Tri Butyl Tin Oxide 2) Di Butyl Tin Di Chloride 3) Di n Octyl Tin DI Chloride 4) Di n Propyl Tin Chloride 5) Di Phenyl Tin Di Chloride 6) Methyl Tin Tri Chloride 7) Mono Phenyl Tin Tri Chloride 8) n Butyl Tin Tri Chloride 9) Octyl Tin Tri chloride 10) Tetra Butyl Tin 11) Tetra Ethyl Tin 12) Tri Butyl Tin Chloride 13) Tri Cyclo Hexyl Tin Chloride 14) Tri Methyl Tin Chloride 15) Tri n Propyl Tin Chloride	CEN ISO 16179:2012 EN ISO 22744-1:2020 ISO 17353:2004

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		16) Tri Octyl Tin Chloride 17) Di Methyl Tin Di Chloride 18) Tri phenyl tin Chloride	
45.	Textile and its accessories (plastic, polymer, rubber & other materials)	Polycyclic Aromatic Hydrocarbons 1) Acenaphthene 2) Acenaphthylene 3) Anthracene 4) Benzo(a)anthracene 5) Benzo(a)pyrene 6) Benzo(b)fluoranthene 7) Benzo(e)pyrene 8) Benzo(g,h,i)perylene 9) Benzo(j)fluoranthene 10) Benzo(k)fluoranthene 11) Chrysene 12) Di Benzo(a,h)Anthracene 13) Fluoranthene 14) Fluorene 15) Indeno (1,2,3- cd) Pyrene 16) Naphthalene 17) Phenanthrene 18) Pyrene	AFPS GS.2019:01 PAK; EN 17132:2019; ISO 16190:2021
46.	Textile and its accessories	Total Lead Content	CPSC-CH-E1001- 08-3:2012



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
			CPSC-CH-E1002-08-3:2012 ISO 17072-2:2022 USEPA 3051:2007
47.	Toy accessories	Extractable (or) Migration of Certain elements– 1) Aluminium 2) Antimony 3) Arsenic 4) Barium 5) Boron 6) Cadmium 7) Chromium 8) Cobalt 9) Copper 10) Lead 11) Manganese 12) Mercury 13) Nickel 14) Selenium 15) Strontium 16) Tin 17) Zinc	BS EN 71-3: 2019+A1:2021 IS 9873-3:2020
48.	Toys accessories	Total Heavy Metals –	ASTM F963:2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		1) Aluminium 2) Antimony 3) Arsenic 4) Barium 5) Boron 6) Cadmium 7) Chromium 8) Cobalt 9) Copper 10) Lead 11) Iron 12) Manganese 13) Mercury 14) Nickel 15) Selenium 16) Silver 17) Strontium 18) Tin 19) Zinc	EN16711-1:2015 ISO 17072-2:2022
49.	Jewellery items (metal parts)	Cadmium in Metal Jewellery	CPSC-CH-E1004-11



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
50.	Plastic materials, surface coatings, rubber and others	Bisphenols: 1) Bisphenol-A 2) Bisphenol S 3) Bisphenol B 4) Bisphenol F 5) Bisphenol-AF	CEN/TS 13130- 13: 2005
51.	All materials	Chlorinated Aromatics: 1) 2-Chlorotoluene 2) 3-Chlorotoluene 3) 4-Chlorotoluene 4) 2,3-Dichlorotoluene 5) 2,4-Dichlorotoluene 6) 2,5-Dichlorotoluene 7) 2,6-Dichlorotoluene 8) 3,4-Dichlorotoluene 9) 2,3,6-Trichlorotoluene 10) 2,4,5-Trichlorotoluene 11) 2,3,4,5-Tetrachlorotoluene 12) 2,3,4,6-Tetrachlorotoluene 13) 2,3,5,6-Tetrachlorotoluene 14) Pentachlorotoluene 15) 1,2-Dichlorobenzene 16) 1,3-Dichlorobenzene	EN 17137:2018 GSO- 1956:2009 ChemST IHTM / SOP-0040-2025 (Ver-01)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		17) 1,4-Dichlorobenzene 18) 1,2,3-Trichlorobenzene 19) 1,2,4-Trichlorobenzene 20) 1,3,5-Trichlorobenzene 21) 1,2,3,4-Tetrachlorobenzene 22) 1,2,3,5-Tetrachlorobenzene 23) 1,2,4,5-Tetrachlorobenzene 24) Pentachlorobenzene 25) Hexachlorobenzene 26) p-Chlorobenzotrichloride 27) Benzotrighloride 28) Benzyl Chloride 29) Chlorobenzene	
52.	Plastic and other polymers	N-Nitrosamines: 1) N-nitrosodimethylamine (NDMA) 2) N-nitrosodiethylamine (NDEA) 3) N-nitrosodipropylamine (NDPA) 4) N-nitrosodibutylamine (NDBA) 5) N-nitrosopiperidine (NPIP) 6) N-nitrosopyrrolidine (NPYR) 7) N-nitrosomorpholine (NMOR) 8) N-nitroso N-methyl N-phenylamine (NMPHA)	EN ISO 19577:2019 ChemST IHTM / SOP-0040-2025 (Ver-01)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
		9) N-nitroso N-ethyl N-phenylamine (NEPhA)	
53.	Food ware article (coated /plastic)	Overall migration into aqueous food simulants	(EU) NO 10/2011
54.	Food ware article (coated /plastic)	Overall migration into aqueous food simulants	EN 1186-2:2022
55.	Food ware article (coated /plastic)	Overall migration into aqueous food simulants	EN 1186-3:2022
56.	Food ware article (coated /plastic)	Overall migration into aqueous food simulants	EN 1186-9:2002
57.	Food ware article (coated /plastic)	Overall migration into aqueous food simulants	EN 1186-13:2002
58.	Food ware article (coated /plastic)	Overall migration into aqueous food simulants	EN 1186-14:2002
59.	Food ware article (coated /plastic)	Overall migration into aqueous food simulants	EN 13130-1:2004
60.	Food ware article (coated /plastic)	Overall migration into aqueous food simulants	IS 9845:1998
61.	Plastic wood metal product utensils food storage boxes	Overall migration of plastic in contact with food stuffs	BS EN 1186-1:2002
62.	Plastic wood metal product utensils food storage boxes	Overall migration of plastic in contact with food stuffs	EU-10/2011

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous and Restricted Chemicals		
63.	Plastic wood metal product utensils food storage boxes	Overall migration of plastic in contact with food stuffs	IS 9845:1998
64.	Plastic wood metal product utensils food storage boxes	Overall migration of plastic in contact with food stuffs	EN 13130-1



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Leather & Footwear		
1.	Finished leather footwears, leather products others- synthetic & fabric materials	Tensile strength & elongation/breaking strength	ISO 3376: 2020 EN ISO 3376: 2020 BS EN ISO 3376: 2020 DIN EN ISO 3376: 2020 SATRA TM 43: 2021 SATRA TM 29: 2019
2.	Finished leather footwears, leather products others- synthetic & fabric materials	Single edge tear strength/ Double edge tear strength	Single Edge ISO 3377-1: 2011 BS EN ISO 3377-1: 2011 EN ISO 3377-1: 2011 DIN EN ISO 3377-1: 2011 SATRA TM 30: 2017 ISO 17696:2004 ASTM D4704-13(2017) Double Edge ISO 3377-2: 2016 BS EN ISO 3377-2: 2016 EN ISO 3377-2: 2016 DIN EN ISO 3377-2: 2016 SATRA TM 162: 2017
3.	Finished leather footwears, leather products others- synthetic & fabric materials	Flexing resistance – bally	ISO 5402-1:2022 BS EN ISO 5402-1:2022 EN ISO 5402-1:2022 DIN EN ISO 5402-1:2022 ASTM D6182-00(2015) ISO 17694:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Leather & Footwear		
			SATRA TM 55: 1999
4.	Finished leather footwears, leather products others-synthetic & fabric materials	Vamp flexing resistance	ISO 5402-2:2015 BS EN ISO 5402-2:2015 EN ISO 5402-2:2015 DIN EN ISO 5402-2:2015 SATRA TM 25: 2020
5.	Finished leather footwears, leather products others-synthetic & fabric materials	Abrasion resistance - (martindale abrasive tester)	SATRA TM 31:2021 BS EN 13520:2002
6.	Others-coated leather materials	Resistance of finish films on upper leather to peeling and delamination	SATRA TM 148: 2021
7.	Others-soling materials (rubber, thermoplastic rubber, PVC, EVA, etc)	Tensile strength - sole	ISO 37: 2017 SATRA TM 137: 1995
8.	Others-soling materials (rubber, thermoplastic rubber, PVC, EVA, etc)	Tear strength - sole	ISO 34-1:2022 SATRA TM 218: 1999
9.	Others-soling materials (rubber, thermoplastic rubber, PVC, EVA, etc)	Split tear strength – sole	SATRA TM 65: 2021
10.	Others-soling materials (rubber, thermoplastic rubber, PVC, EVA, etc)	Sole stitch tear strength	SATRA TM 5:2000

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Leather & Footwear		
11.	Others-soling materials (rubber, thermoplastic rubber, PVC, EVA, etc.), and leather sole	Sole abrasion resistance – (drum method)	ISO 4649:2017 SATRA TM 174: 2016 SATRA TM 193: 2004
12.	Others-soling materials (rubber, thermoplastic rubber, PVC, EVA, etc)	Flexing resistance – sole	ISO 17707:2005 SATRA TM 161: 2004 SATRA TM 133: 2017 Room Temperature BS 5131-2.1:1991 SATRA TM 60: 2020
13.	Others-soling materials (rubber, thermoplastic rubber, PVC, EVA, etc)	Density (density balance)	SATRA TM 134:2010 ISO 2781:2018 (Method-A)
14.	Footwears others - sandal products materials	Sole bond peeling strength/bond strength	BS 5131 Sec. 5.4: 1978 ISO 17708:2018 BS EN ISO 17708:2018 EN ISO 17708:2018 DIN EN ISO 17708:2018 SATRA tm 411: 2023
15.	Footwears others - sandal products materials	Whole shoe bond strength	SATRA TM 281: 2002 SATRA TM: 401: 2021
16.	Footwears others - sandal products materials	Attachment of strap to sole strength	SATRA TM 120: 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Leather & Footwear		
17.	Footwears others - sandal products materials	Toe post strength	SATRA TM 118: 2022
18.	Footwears others - sandal products materials	Heel attachment strength	BS EN 12785:2000 SATRA TM 113: 2022
19.	Footwears others - sandal products materials	Top piece attachment strength	SATRA TM 108: 2021
20.	Footwears others - sandal products materials	Ageing	BS EN 12749: 1999
21.	Footwears others - sandal products materials	Whole shoe flexing	SATRA TM 92:2016
22.	Footwears others - sandal products materials	Seam strength	BS 5131-5.13:1980
23.	Footwears others - footwears materials and belt materials	Strength of strap & buckle attachment / strength of buckle fastening assemblies	BS 5131 Sec. 5.11: 1981 SATRA TM 151:1999
24.	Footwears others - footwears materials and belt materials	Attachment strength/ buckle/ straps/ trims/bows	SATRA TM 117: 2023
25.	Footwears others - sandal products materials	Lace breaking strength	BS 5131 Sec.3.7: 1991
26.	Footwears others - footwears materials and belt materials	Breaking force of buckle three-point bending test	SATRA TM 141: 94 (2018)
27.	Footwears others - sandal products materials	Knot slippage test	SATRA TM 195:2004

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Leather & Footwear		
28.	Footwears others - sandal products materials	Pin holding strength of insole materials	SATRA TM 11: 1993
29.	Footwears others - sandal products materials	Tensile properties of insole materials (method 2)	SATRA TM 2:2021
30.	Footwears others - sandal products materials	Peel strength before and after repeated closing	SATRA TM 123:2018
31.	Footwears others - sandal products materials	Shear strength before and after repeated closing	SATRA TM 123:2018
32.	Footwears others - sandal products materials	Attachment strength of eyelet	SATRA TM 150:1999
33.	Footwears others - sandal products materials	Eyelet facing strength	SATRA TM 149:2021
34.	Footwears	Tab strength	SATRA TM 165: 1992
35.	Footwears	Fatigue test for shoe heels	SATRA TM 21: 2017
36.	Others-soling materials (rubber, thermoplastic rubber, PVC, EVA, etc.), and leather sole	Shore A hardness	SATRA TM 205:2017
37.	Others-soling materials (rubber, thermoplastic rubber, PVC, EVA, etc.), and leather sole	Shore D hardness	SATRA TM 205:2017

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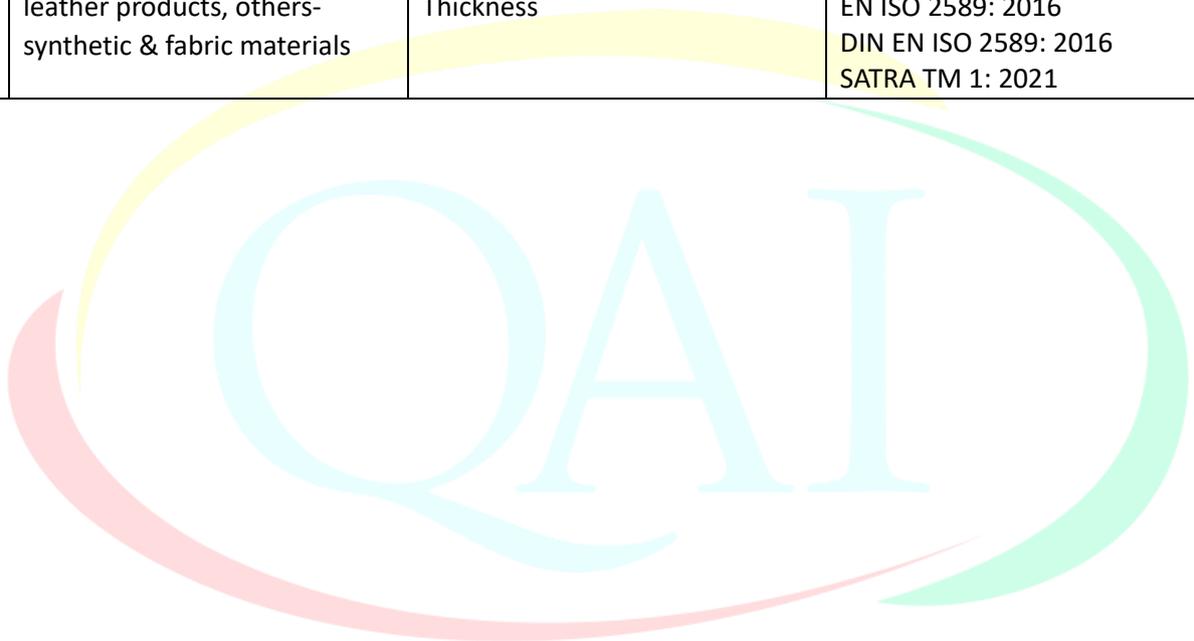
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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Leather & Footwear		
38.	Finished leather, footwears, leather products, others-synthetic & fabric materials	Thickness	ISO 2589: 2016 BS EN ISO 2589: 2016 EN ISO 2589: 2016 DIN EN ISO 2589: 2016 SATRA TM 1: 2021



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
1.	Textiles / fabrics and garments	Flammability of clothing textiles	ASTM D1230: 2022
2.	Textiles / fabrics and garments	Flammability of clothing textiles	CGSB NO 4.2-27.5: 2023
3.	Textiles / fabrics and garments	Flammability of clothing textiles	16 CFR 1610: 2024
4.	Textiles / fabrics and garments	Standard for the flammability of children's sleepwear	16 CFR 1615: 2023 16 CFR 1616: 2023
5.	Upholstery fabrics, rugs	Determination of flammability of rugs and carpets (larger)	16 CFR 1630: 2018
6.	Upholstery fabrics, rugs	Determination of flammability of rugs and carpets (smaller)	16 CFR 1631: 2010
7.	Textiles / fabrics and garments	Children's sleepwear regulations	SOR/2011-15
8.	Textiles / fabrics and garments	Flame resistance of textiles (vertical test)	ASTM D 6413-1999
9.	Textiles / fabrics and garments	Burning behaviour of children's nightwear - specification	BS EN 14878: 2007 EN 14878: 2007 BS EN 1103: 2005 EN 1103: 2005 ISO 6940: 2004 BS EN ISO 6940: 2004 DIN EN ISO 6940: 2004 ISO 6941: 2003 BS EN ISO 6941: 2003

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
10.	Fabric, garment & made ups	Standard test method for abrasion resistance of textile fabrics (Martindale abrasion tester method)- option 1, option 2, option 3	ASTM D4966-12 Reapproved 2022
11.	Fabric, garment & made ups	Standard test method for pilling resistance and other related surface changes of textile fabrics: random tumble pilling tester	ASTM D3512: 2022
12.	Fabric, garment & made ups	Fabric propensity to surface pilling, fuzzing or matting - modified Martindale method	ASTM D4970: 2022
13.	Fabric, garment & made ups	Piling resistance - determination of fabric propensity to surface pilling, fuzzing or matting - part 1: pilling box method	ISO 12945-1: 2020 BS EN ISO 12945-1: 2020 SASO ISO 12945 1: 2020 NF EN ISO 12945-1: 2020
14.	Fabric, garment & made ups	Piling resistance - determination of fabric propensity to surface pilling, fuzzing or matting - part 2: modified Martindale method	ISO 12945-2: 2020 BS EN ISO 12945-2: 2020 SASO ISO 12945 2: 2020
15.	Fabric, garment & made ups	Piling resistance - determination of fabric propensity to surface pilling, fuzzing or matting - part	ISO 12945-4: 2020 BS EN ISO 12945-4: 2020 SASO ISO 12945-4: 2020

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Valid from: **29 August 2024**

QAI/CIA/TL/2024/0074

*Scope Amended w.e.f.: 25 November 2025

Valid until: **28 August 2026**

Accreditation Standard: **ISO/IEC 17025:2017**

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
		4: assessment of pilling, fuzzing or matting by visual analysis	NF EN ISO 12945-4: 2020
16.	Fabric, garment & made ups	Textiles - abrasion resistance of fabrics by the Martindale method iso 12947 - part 1: Martindale abrasion testing apparatus	ISO 12947-1: 1998 BS EN ISO 12947-1: 1998
17.	Fabric, garment & made ups	Textiles - abrasion resistance of fabrics by the Martindale method-part 2: specimen breakdown	ISO 12947-2: 2016 BS EN ISO 12947-2: 2016
18.	Fabric, garment & made ups	Textiles - abrasion resistance of fabrics by the Martindale method- part 3: mass loss	ISO 12947-3: 1998 BS EN ISO 12947-3: 1998
19.	Fabric, garment & made ups	Textiles - abrasion resistance of fabrics by the Martindale method-part 4: assessment of appearance change	ISO 12947-4: 1998 BS EN ISO 12947-4: 1998
20.	Fabric, garment & made ups	Tearing strength-single rip	ASTM D2261: 13 (2017)
21.	Fabric, garment & made ups	Tearing strength-single rip	ISO-13934-1: 2013 BS EN ISO 13934 (Part 1): 2013
22.	Fabric, garment & made ups	Tensile properties of fabrics (strip method)	ASTM D5035-11 (2019)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
23.	Fabric, garment & made ups	Tensile properties of fabrics (strip method)	ISO-13934-1: 2013 BS EN ISO 13934 (Part 1): 2013 SASO 2139: 2003
24.	Fabric, garment & made ups	Tensile properties of fabrics: (grab method)	ASTM D5034: 2021
25.	Fabric, garment & made ups	Tensile properties of fabrics: (grab method)	ISO-13934-2: 2014 BS EN ISO 13934 (Part 2): 2014
26.	Fabric, garment & made ups	Standard test method for resistance to slippage of yarns in woven fabrics using a standard seam	ASTM D434: 95
27.	Fabric, garment & made ups	Seam properties	ASTM D1683: 2022
28.	Fabric, garment & made ups	Seam properties	ISO-13935-1: 2014 BS EN ISO 13935 (Part 1): 2014
29.	Fabric, garment & made ups	Seam properties	ISO-13935-2: 2014 BS EN ISO 13935 (Part 2): 2014
30.	Fabric, garment & made ups	Seam properties	ISO-13936-1: 2004 BS EN ISO 13936 (Part 1): 2004 SASO ISO 13936 (Part 1): 2004
31.	Fabric, garment & made ups	Seam properties	ISO-13936-2: 2004 BS EN ISO 13936 (Part 2): 2004 SASO ISO 13936 (Part 2): 2004
32.	Fabric, garment & made ups	Tearing strength	ASTM D1424: 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
33.	Fabrics, garments & apparel	Tearing strength	ISO 13937-1: 2000 BS EN ISO 13937 (Part 1): 2000
34.	Fabrics, garments & apparel	Tearing strength	ISO 13937-2: 2000 BS EN ISO 13937 (Part 2): 2000
35.	Fabrics, garments & apparel	Tearing strength	ISO 13937-3: 2000 BS EN ISO 13937 (Part 3): 2000
36.	Fabric, garment & made ups	Bursting strength	ASTM D3786/3786M: 18
37.	Fabric, garment & made ups	Bursting strength	ISO 13938-1: 2019 BS EN ISO 13938-1: 2019
38.	Fabric, garment & made ups	Bursting strength	ISO 13938-2: 2019 BS EN ISO 13938-2: 2019
39.	Fabric, garment & made ups	Mass per unit area	BS 2471: 2005
40.	Fabric, garment & made ups	Mass per unit area	SASO 1938: 2019
41.	Fabric, garment & made ups	Mass per unit area (weight) of fabric	ASTM D3776: 2020
42.	Fabric, garment & made ups	Mass per unit area (weight) of fabric	BSEN 12127: 1998 DIN EN 12127: 1998
43.	Fabric, garment & made ups	Mass per unit area (weight) of fabric	ISO 3801: 1977 BS EN ISO 3801: 1977
44.	Fabric, garment & made ups	Textiles knitted fabrics: number of stitches per unit length and unit area	BS EN 14971: 2019+A1: 2021



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
45.	Fabric, garment & made ups	Threads per unit length / construction of fabrics	ASTM D3775: 2017
46.	Fabric, garment & made ups	Threads per unit length / construction of fabrics	ASTM D3887: 2015
47.	Fabric, garment & made ups	Threads per unit length / construction of fabrics	BS EN 1049-2: 1994
48.	Fabric, garment & made ups	Threads per unit length / construction of fabrics	ISO 7211-2: 1984
49.	Knitted fabrics & garments	Courses & Wales	ASTM D8007: 2019
50.	Knitted fabrics & garments	Fabric construction analysis	BS 5441:1988+A1
51.	Textiles/ garments	Test method for length and width of textile fabric	ASTM D3774: 2018
52.	Textiles/ garments	Test method for length and width of textile fabric	ISO 22198: 2006
53.	Textile – fabrics, fabric assemblies or fibre aggregates in sheet form	Determination of thermal resistance – part 1	ISO 5085-1: 1989
54.	Garment and apparel accessories (like zippers, button, etc.)	Torque test – Upto 18 months	16 CFR Part 1500.51
55.	Garment and apparel accessories (like zippers, button, etc.)	Torque test – 18-36 months	16 CFR Part 1500.52

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
56.	Garment and apparel accessories (like zippers, button, etc.)	Torque test – 36-96 months	16 CFR Part 1500.53
57.	Garment and apparel accessories (like zippers, button, etc.)	Tension test – upto 18 months	16 CFR Part 1500.51
58.	Garment and apparel accessories (like zippers, button, etc.)	Tension test – 18-36 months	16 CFR Part 1500.52
59.	Garment and apparel accessories (like zippers, button, etc.)	Tension test – 36-96 months	16 CFR Part 1500.53
60.	Garment and apparel accessories (like zippers, button, etc.)	Standard for small parts regulations.	16 CFR 1501.4
61.	Garment and apparel accessories (like zippers, button, etc.)	Sharp point [under a force of 1 pound]	16 CFR Part 1500.48(d)
62.	Garment and apparel accessories (like zippers, button, etc.)	Sharp edge [under a force of 1.35 pound]	16 CFR Part 1500.49(d)
63.	Garment and apparel accessories (like zippers, button, etc.)	Standard consumer safety specification for toy safety:	ASTM F963: Section-8.8

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
		torque tests for removal of components	
64.	Garment and apparel accessories (like zippers, button, etc.)	Standard consumer safety specification for toy safety: tension tests for removal of components	ASTM F963: Section-8.9
65.	Garment and apparel accessories (like zippers, button, etc.)	Standard consumer safety specification for toy safety: standard for small objects	ASTM F963: Section-4.6
66.	Garment and apparel accessories (like zippers, button, etc.)	Standard consumer safety specification for toy safety: accessible edges [under a force of 1.35 pound]	ASTM F963: Section-4.7
67.	Garment and apparel accessories (like zippers, button, etc.)	Standard consumer safety specification for toy safety: accessible points [under a force of 1 pound]	ASTM F963: Section-4.9
68.	Garment and apparel accessories (like zippers, button, etc.)	Mechanical and physical properties: torque test	EN 71 Part 1 Clause 8.3
69.	Garment and apparel accessories (like zippers, button, etc.)	Mechanical and physical properties: tension test	EN 71 Part 1 Clause 8.4

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
70.	Garment and apparel accessories (like zippers, button, etc.)	Mechanical and physical properties: standard for small parts regulations.	EN 71 Part 1 Clause 8.2
71.	Garment and apparel accessories (like zippers, button, etc.)	Mechanical and physical properties: sharpness of edge [under a force of 1.35 pound]	EN 71 Part 1 Clause 8.11
72.	Garment and apparel accessories (like zippers, button, etc.)	Mechanical and physical properties: sharpness of point [under a force of 1 pound]	EN 71 Part 1 Clause 8.12
73.	Garment and apparel accessories (like zippers, button, etc.)	Strength of attached components	ASTM D7142: 05 (reapproved 2016)
74.	Textile and textile product	Safety of children's clothing – security of attachment of buttons	PDCEN/TR 17394 (Part 2): 2021
75.	Textile and textile product	Safety of children's clothing - security of attachment of metal mechanically applied press fasteners	PDCEN/TR 17394 (Part 3): 2021
76.	Textile and textile product	Safety of children's clothing - security of attachment of components except buttons and metal mechanically applied press fasteners	PDCEN/TR 17394 (Part 4): 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
77.	Textiles	Elasticity of fabrics - Part 1: strip tests	BS EN ISO 20932: 2018
78.	Textiles	Method of test for elastic fabrics	BS 4952: 1992
79.	Textiles	Standard test method for stretch properties of knitted fabrics having low power- growth & recovery	ASTM D2594: 21
80.	Textiles	Standard test method for tension and elongation of elastic fabrics (constant- rate of extension type tensile testing machine)	ASTM D4964-96 Reapproved 2020
81.	Textiles	Standard test methods for stretch properties of fabrics woven from stretch yarns – growth & recovery	ASTM D3107: 19
82.	Textiles	Test method for length and width of textile fabric	ASTM D3773: 19
83.	Textile – fabric, garment & apparels	Grab strength / seam slippage	NEXT TM16
84.		Seam slippage of garments	NEXT TM16a
85.		Tear strength	NEXT TM17
86.		Martindale abrasion	NEXT TM18

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
87.	Textile – fabric, garment & apparels	Abrasion resistance for flat home fabrics	NEXT TM18a
88.		Abrasion resistance for pile home fabrics	NEXT TM18b
89.		Pilling resistance	NEXT TM19
90.		Mass per unit area / GSM	NEXT TM20
91.		Extension and modulus	NEXT TM21
92.		Extension and recovery	NEXT TM21a
93.		Bursting strength	NEXT TM22
94.		Wing rip tear strength	NEXT TM25
95.		Swiss pilling	NEXT TM26
96.		Breaking strength	NEXT TM27
97.		Button strength	NEXT TM37
98.		Bow and skew of fabrics	NEXT TM38
99.		Bow and skew of garments	NEXT TM38a
100.		Attachment strength	NEXT TM42
101.	Security of unattached components	NEXT TM42a	



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
102.	Textile – fabric, garment & apparels	Handle attachment strength	NEXT TM45
103.		Pile crush	NEXT TM56
104.		Mass per unit length	NEXT TM62
105.		Fabric width	NEXT TM63
106.		Ends and picks	NEXT TM64
107.		Courses and Wales	NEXT TM65
108.		Children's sleeping bag neck opening	NEXT TM67

*Note:

Scope Amendment 1:

The following amendments have been done in the scope w.e.f. 25 November 2025:

- The Standard Operating Procedure (ChemST IHTM (SOP-0040-2025, Ver-01) has been incorporated under **Hazardous and Restricted Chemicals (Chemical Discipline)** at S. No. 1, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 16, 17, 18, 19, 20, 21, 28, 51 and 52 (Page Nos. 15–41).

