National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL LEATHER RESEARCH INSTITUTE - CENTRE FOR ANALYSIS, TESTING , EVALUATION & REPORTING SERVICES (CLRI-CATERS), SARDAR PATEL ROAD, ADYAR, CHENNAI, TAMIL NADU, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	BCS - Powder /Solution	Basic chromium sulphate - Hexavalent Chromium	IS 6301-A-7(RA 2019)
2	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	BCS - Powder /Solution	Basic chromium sulphate - Matter Insoluble in Water	IS 6301-A-5(RA 2019)
3	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	BCS - Powder /Solution	Basic Chromium Sulphate - Moisture	IS 6301-A-2(RA 2019)
4	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	BCS - Powder /Solution	Basic chromium sulphate - Penta ChloroPhenol	IS 6301-A-8(RA 2019)
5	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	BCS - Powder /Solution	Basic chromium sulphate-Basicity	IS 6301-A-4(RA 2019)
6	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	BCS - Powder /Solution	Basic chromium sulphate-Free Sulphate	IS 6301-A-3(RA 2019)
7	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	BCS - Powder /Solution	Basic chromium sulphate-pH	IS 6301-A-6(RA 2019)
8	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	BCS -powder /Solution	Basic chromium Sulphate - Cr2O3	IS 6301-A-4(RA 2019)
9	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Syntan Materials	Ash	IS 13271/16(RA 2019)
10	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Syntan Materials	Insolubles	IS 13271/12(RA 2019)
11	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Syntan Materials	Moisture	IS 13271/7(RA 2019)
12	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Syntan Materials	Non-Tannins	IS 13271/10(RA 2019)
13	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Syntan Materials	pH	IS 13271/13(RA 2019)
14	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Syntan Materials	Tannins	IS 13271/11(RA 2019)
15	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Syntan Materials	total solid	IS 13271/8(RA 2019)
16	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Syntan Materials	total solubles	IS 13271/9(RA 2019)
17	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Vegetable tanning materials	Insolubles	IS 5466/12(RA 2019)
18	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Vegetable Tanning Materials	Moisture	IS 5466 /7(RA 2019)

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19	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Vegetable tanning materials	Non-Tannins	IS 5466/10(RA 2019)
20	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Vegetable tanning materials	pH	IS-5466/13(RA 2019)
21	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Vegetable tanning materials	Tannins	IS 5466/11(RA 2019)
22	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Vegetable Tanning Materials	total solids	IS 5466/8(RA 2019)
23	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Vegetable tanning materials	total soluble	IS 5466/9(RA 2019)
24	CHEMICAL- LEATHER	Leather / Footwear / leather products	matter soluble in dichloromethane and free fatty acid content: Fat content	ISO 4048
25	CHEMICAL- LEATHER	Leather / Footwear / Leather Products	matter soluble in dichloromethane and free fatty acid content: Free fatty Acid	ISO 4048
26	CHEMICAL- LEATHER	Leather / Leather Products / Footwear	volatile matter	ISO 4684
27	CHEMICAL- LEATHER	Leather / Leather Products / Footwear	water soluble matter, water soluble inorganic matter and water soluble organic matter-Water Soluble	ISO 4098
28	CHEMICAL- LEATHER	Leather / Leather Products / Footwear	water soluble matter, water soluble inorganic matter and water soluble organic matter-Water soluble inorganic matter	ISO 4098
29	CHEMICAL- LEATHER	Leather / Leather Products / Footwear	water soluble matter, water soluble inorganic matter and water soluble organic matter-Water soluble organic matter	ISO 4098
30	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	aluminum as alumina in alum tanned leather	IS 582-LC-11(RA2019)
31	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	bound organic substance and degree of tannage-Bound organic Substance	IS 582-LC-21(RA2019)
32	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	bound organic substance and degree of tannage-Degree of Tannage	IS 582-LC-21(RA2019)
33	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	chromic oxide content	IS 582-LC-10(RA2019)
34	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	chromic oxide content Part 1: Quantification by titration	ISO 5398-1

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35	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	chromic oxide content Part 4: Quantification by inductively coupled plasma (ICP-OES)	ISO 5398-4
36	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	combined oil	IS 582-LC-15(RA2019)
37	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	Detection of presence of formaldehyde	IS 582-LC-13(RA2019)
38	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	ethoxylated alkylphenols in leather Part 1: Direct method-Ethoxylated nonylphenol	ISO 18218-1
39	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	ethoxylated alkylphenols in leather Part 1: Direct method-Ethoxylated octyl phenol	ISO 18218-1
40	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	hide and nitrogen substances - Nitrogen Content	IS 582-LC-5(RA2019)
41	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	hide and nitrogen substances-Hide Substance	IS 582-LC-5(RA2019)
42	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	nitrogen content and hide substance-by Titrimetric method-Hide Substance	ISO 5397
43	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	nitrogen content and hide substance-by Titrimetric method-Nitrogen content	ISO 5397
44	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	pH and difference figure of water soluble matter	IS 582-LC-18(RA2019)
45	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	preservative (TCMTB-OPP-PCMC-OIT) content in leather by liquid chromatography Part 1: Acetonitrile extraction method	ISO 13365-1
46	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	preservative (TCMTB-OPP-PCMC-OIT) content in leather by liquid chromatography Part 2: Artificial perspiration extraction method	ISO 13365-2
47	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	sulphated ash of waters soluble	IS 582-LC-7
48	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	sulphated total ash and sulphated water insoluble ash	ISO 4047
49	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	sulphated total ash and sulphated water insoluble ash-Sulphated total ash	ISO 4047

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50	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	sulphates	IS 582-LC-20(RA2019)
51	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	Test for corrosion produced by leather in contact with metal	IS 582-LC-22(RA2019)
52	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	total chlorides	IS 582-LC-19(RA2019)
53	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	water insoluble ash	IS 582-LC-8(RA2019)
54	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	water soluble matter	IS 582-LC-6(RA2019)
55	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	water soluble organic substances	IS 582-LC-9
56	CHEMICAL- LEATHER	Leather / Leather Products /Footwear	zirconium	IS 582-LC-12(RA2019)
57	CHEMICAL- LEATHER	Leather /Leather Products/ Footwear	certain azo colorants in dyed leathers Part 1: certain aromatic amines derived from azo colorants	ISO 17234-1
58	CHEMICAL- LEATHER	Leather/ Leather Product/ Footwear	formaldehyde content Part 1: method using HPLC	ISO 17226-1
59	CHEMICAL- LEATHER	Leather/ Leather Products/ Footwear	pH and difference figure	ISO 4045
60	CHEMICAL- LEATHER	Leather/ Leather Products/ Footwear	Determination of certain azo colorants in dyed leathers Part 2: Determination of 4-aminoazobenzene derived from azo colorants	ISO 17234-2
61	CHEMICAL- LEATHER	Leather/ Leather Products/ Footwear	Hexavalent chromium content- Part 1; colorimetric method	ISO 17075-1
62	CHEMICAL- LEATHER	Leather/ Leather Products/ Footwear	Hexavalent chromium content- Part 2; chromatographic method	ISO 17075-2
63	CHEMICAL- LEATHER	Leather/ Leather Products/ Footwear	Metal content- Part 1: Extractable metals -Extractable Heavy Metals	ISO 17072-1
64	CHEMICAL- LEATHER	Leather/ Leather Products/ Footwear	Metal content- Part 1: Extractable metals -Mineral tanning agents	ISO 17072-1
65	CHEMICAL- LEATHER	Leather/ Leather Products/ Footwear	metal content -Part 2: Total metal content	ISO 17072-2
66	CHEMICAL- LEATHER	Leather/ Leather Products/ Footwear	Tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content- Mono & Dichlorophenol	ISO 17070

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67	CHEMICAL- LEATHER	Leather/ Leather Products/ Footwear	Tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content- Tri, Tetra & Pentachlorophenol	ISO 17070
68	CHEMICAL- LEATHER	Leather/Footwear/Leather Products	Qualitative test for presence of Nickel	SATRA TM 354
69	CHEMICAL- LEATHER	Leather/Leather Products /Footwear	Detection of Free Formaldehyde	IS 582-LC-14(RA2019)
70	CHEMICAL- LEATHER	Leather/Leather Products/Footwear	moisture	IS 582-LC-2(RA2019)
71	CHEMICAL- LEATHER	Leather/Leather Products/Footwear	Qualitative test for acidity in leather	SATRA TM 323
72	CHEMICAL- LEATHER	Leather/Leather Products/Footwear	solvent extractable substances	IS 582-LC-4(RA2019)
73	CHEMICAL- LEATHER	Leather/Leather Products/Footwear	total ash	IS 582-LC-3(RA2019)
74	CHEMICAL- LEATHER	Leather/Leather Products/Footwear	Vegetable Tans Content-Qualitative Test	SATRA TM 303
75	CHEMICAL- LEATHER	Leather/Leather Products/Footwear	Volatile matter	IS 582-LC-1(RA2019)
76	CHEMICAL- LEATHER	Others	Metal content- Part 1: Extractable metals -Mineral tanning agents	ISO 17072-1
77	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Lining material for Leather products & Footwear	Tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content- Tri, Tetra & Pentachlorophenol	ISO 17070
78	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Lining Material for Leather Products & Footwear	Certain aromatic amines derived from azo colorants-Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres	ISO 14362-1
79	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Lining Material for Leather Product & Footwear	pH of aqueous extract	ISO 3071
80	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Lining material for Leather products & Footwear	Certain aromatic amines derived from azo colorants-Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene	ISO 14362-3

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81	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Lining material for Leather Products & Footwear	Formaldehyde free and hydrolysed formaldehyde (waters extraction method)	ISO 14184-1
82	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Lining material for Leather Products & footwear	Tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content- Mono & Dichlorophenol	ISO 17070
83	MECHANICAL- LEATHER AND LEATHER PRODUCTS	all types of colored materials	Colour fastness to light from a Xenon arc	SATR TM 160
84	MECHANICAL- LEATHER AND LEATHER PRODUCTS	All types of leather	Tear strength – Baumann method	SATRA TM 162
85	MECHANICAL- LEATHER AND LEATHER PRODUCTS	All types of leather	Water absorption of leather – Kubelka method	SATRA TM 219
86	MECHANICAL- LEATHER AND LEATHER PRODUCTS	All types of slide fasteners	Slide fastener burst strength	SATRA TM 166
87	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Any colored sheet materials like fabrics, leathers, yarns and sewing threads	Colour fastness to rubbing – crockmeter test	SATRA TM 167
88	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Any flexible sheet materials including leather	Resistance to water penetration – penetrometer test	SATRA TM 171
89	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Any polymeric based footwear soling and sheet materials	Abrasion resistance – rotating drum method	SATRA TM 174
90	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Any polymeric or footwear soling material	Tensile properties of plastics and rubbers	SATRA TM 137
91	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Any slide fasteners with slide locking device	Slide locking strength of slide fasteners	SATRA TM 226
92	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Bonded Joints	Peel strength of adhesive bonds	SATRA TM 401
93	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Buckle	Breaking force of buckles – three point bending test	SATRA TM 141
94	MECHANICAL- LEATHER AND LEATHER PRODUCTS	buckle and strap fastenings	Strength of buckle and strap attachments	SATRA TM 181
95	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Buckles	Strength of fastened buckles	SATRA TM 151
96	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Coated and finished leathers	Physical and mechanical tests - Determination of water vapour permeability	ISO 14268

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97	MECHANICAL- LEATHER AND LEATHER PRODUCTS	coated and finished leathers	Resistance of finish films on upper leather to peeling and delamination	SATRA TM 148
98	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Compact or microcellular polymeric materials - soft, flexible and hard materials	Hardness of rubber, polyurethane and plastics – durometer method	SATRA TM 205
99	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Determination of resistance of upper to cutting	resistance of upper to cutting	ISO 20344- Clause-6.14
100	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Eyelets	Attachment strength of eyelets	SATRA TM 150
101	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Fabrics/coated Fabrics/Leathers/Flexible Sheet Materials	Abrasion resistance- Martindale method	SATRA TM 31
102	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Fibre board insole and sheet materials	Resistance to scuffing by mild to-and-fro abrasion	SATRA TM 177
103	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Finished Insoles	Resistance of finished insole to circular rubbing	SATRA TM 229
104	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Finished Leather /Leather Products/Footwear	Vamp flex test – Resistance to Creasing and Cracking	SATRA TM 25
105	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Finished Leather/Semi finished Leather	Colour Fastness to Circular Rubbing	SATRA TM 8
106	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Flexible Leathers/Footwears	Leather – physical and mechanical tests – determination of distension and strength of surface (Ball burst method)	ISO 3379
107	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Abrasion resistance of insole	ISO 20344- Clause-7.3
108	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Abrasion resistance of lining and insock	ISO 20344-Clause-6.12
109	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Adhesion strength of a coating to its base	SATRA TM 410
110	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Energy absorption of the seat region	ISO 20344-Clause-5.14
111	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Flexing index	SATRA TM3
112	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Footwear – test method for insoles – abrasion resistance	ISO 20868
113	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Impact resistance of a metatarsal protective device	ISO 20344- Clause-5.16

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114	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Insole thickness	ISO 20344- Clause-7.1
115	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Insulation against cold	ISO 20344 Clause-5.13
116	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Outsole abrasion resistance	ISO 20344- Clause-8.3
117	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Outsole thickness	ISO 20344- Clause-8.1
118	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Pin holding strength of insole materials	SATRA TM 11
119	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Resistance of footwear to flexing	SATRA TM 92
120	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Resistance to hot contact	ISO 20344- Clause-8.7
121	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Resistance to hydrolysis of upper	ISO 20344- Clause-6.10
122	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Stitch tear strength	SATRA TM5
123	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Strength of attachment of straps and nailed or stapled uppers	SATRA TM 120
124	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Tear strength of outsole	ISO 20344- Clause-8.2
125	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Tear strength of the upper, lining and/or tongue	ISO 20344- Clause-6.3
126	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Tensile properties of insole materials	SATRA TM2
127	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Tensile properties of the upper material - Tensile Strength	ISO 20344- Clause-6.4
128	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Tensile properties of the upper material-Extension at Break	ISO 20344- Clause-6.4
129	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Thickness of Leather and Insole Materials	SATRA TM 1
130	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Thickness of upper	ISO 20344- Clause-6.1
131	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Water desorption – total immersion method	SATRA TM6

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132	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Water absorption – total immersion method	SATRA TM6
133	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Water absorption of insole and insock	ISO 20344- Clause-7.2
134	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Water Desorption of insole and insock	ISO 20344- Clause-7.2
135	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Water penetration and Water absorption of upper	ISO 20344- Clause-6.13
136	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Water vapor absorption	ISO 20344- Clause-6.7
137	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Water vapor coefficient	ISO 20344-Clause-6.8
138	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear	Water vapour permeability	ISO 20344- Clause-6.6
139	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear /Out-sole	Footwear – test method for outsoles – abrasion resistance	ISO 20871
140	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear and other flexible components	Bennewart flex test – resistance to cut growth on flexing	SATRA TM 161
141	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear fastenings involving lace	Strength of eyelet facings and other laced fastenings	SATRA TM 149
142	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear Shanks /Metal and Metallic Component	Hardness – Rockwell ‘C’ method	SATRA TM 125
143	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear soles and flexible components	Resistance to crack initiation and growth – Bata flex method	SATRA TM 133
144	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear Upper and Lining Material	Footwear – test methods for uppers and lining – flex resistance	ISO 17694
145	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear upper,Lining and Insocks	Footwear – test methods for uppers, lining and insocks – seam strength	ISO 17697
146	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear Upper,Lining and Insocks	Footwear – test methods for uppers, linings and insocks – colour fastness to rubbing	ISO 17700
147	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/ Cellular and Microcellular Solings/ Semi-Expanded Materials	Heat Shrinkage of Cellular Solings	SATRA TM 70
148	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/Cellular Sheet soling Material	Density of Cellular Materials	SATRA TM 68

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149	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/Insole and In-socks	Footwear – test method for insoles and insocks – water desorption	ISO 22649
150	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/Insole and Insocks	Footwear – test method for insoles and insocks – water absorption	ISO 22649
151	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/Rubber/Thermoplastics	Density of Rubber vulcanized/Thermoplastics	ISO 2781
152	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/Shoe	Footwear – test method for whole shoe – heel attachment	ISO 22650
153	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/Sole/Flexible Sheet Material	Ross Flex Test- Resistance to Cut Growth on Flexing	SATRA TM 60
154	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/solid/Cellular Soling Materials	Compression Set - Constant Stress Method	SATRA TM 64
155	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/Soling Material	Split Tear Method	SATRA TM 65
156	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/Steel Shank	Stiffness of Steel Shank	SATRA TM 58
157	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/Zip	Attachment strength of slide fastener end stops	SATRA TM 53
158	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/Zip	Lateral strength of slide fasteners	SATRA TM 51
159	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/Zip	Resistance of slide fastener to repeated opening and closing	SATRA TM 50
160	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwear/Zip	Strength of slide fastener pullers	SATRA TM 52
161	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Abrasion resistance , Relative volume loss	ISO 4649
162	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Compression resistance	ISO 20344 Clause-5.5
163	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Electrical resistance	ISO 20344 Clause-5.10
164	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Flexing resistance of outsole (Bennwart)	ISO 20344 (clause 8.4)
165	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Footwear – test methods for uppers– tensile strength	ISO 17706
166	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Footwear slip resistance	ISO 20344 Clause-5.11

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167	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Impact resistance	ISO 20344 Clause-5.4
168	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Insulation against heat	ISO 20344 Clause-5.12
169	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Internal toe cap length	ISO 20344 Clause-5.3
170	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Penetration resistance of footwear using a metallic anti-penetration insert	ISO 20344 Clause-5.8.2
171	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Resistance to crackinitiation and growth -- Belt flex method	ISO 16177
172	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Resistance to fuel oil	ISO 20344 (clause 8.6)
173	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Resistance to water for whole footwear	ISO 20344 Clause-5.15
174	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Specific ergonomics features	ISO 20344 Clause-5.1
175	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Upper flexing resistance	ISO 20344 Clause-6.5
176	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears	Upper/outsole and sole interlayer bond strength	ISO 20344 Clause-5.2
177	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears- Sandals	Strength of Sandal Toe Posts	SATRA TM 118
178	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears/ Footwear Accessories	Test methods for accessories: Touch and close fasteners -- Peel strength before and after repeated closing	ISO 22777
179	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears/ Footwear Accessories	Test methods for accessories: Touch and close fasteners — Shear strength before and after repeated closing	ISO 22776
180	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears/Footwears Accessories with Plastics	Indentation hardness by means of a durometer (Shore hardness)	ISO 868
181	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears/Insole	Footwear – test method for insoles – resistance to stitch tear	ISO 20876

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182	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears/Lined and Unlined Polyurethane	Moulded plastics footwear — Lined or unlined polyurethane boots for general industrial use — Specification (Ross Flexing)	ISO 5423
183	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears/Metallic Accessories	Footwear – test method for accessories: metallic accessories – corrosion resistance	ISO 22775
184	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears/Outsole	Footwear – test method for outsoles – tear strength	ISO 20872
185	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears/Outsole	Resistance to hydrolysis of outsole	ISO 20344 (clause 8.5)
186	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears/Shoe Accessories-Laces	Footwear – test method for accessories: shoe laces – abrasion resistance	ISO 22774
187	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears/Upper,Lining and Insocks	Footwear. Test methods for uppers, lining and insocks – seam strength	ISO 13572
188	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears/Upper,Linings and Insocks	Test methods for uppers, linings and insocks -- Abrasion resistance	ISO 17704
189	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Footwears/Whole Shoes	Footwear – test methods for whole shoes – upper sole adhesion	ISO 17708
190	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Heel attachment	Measurement of strength of attachment of heels to footwear and the backpart rigidity of such footwear	SATRA TM 113
191	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Insole materials	Surface peel strength of insole materials	SATRA TM 101
192	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Lace and lace carrier	Shoe lace to shoe lace and shoe lace to lace carrier abrasion	SATRA TM 154
193	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather	Leather – tests for colour fastness – colour fastness to water spotting	ISO 15700
194	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather	Softness	ISO 17235
195	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather /Footwear Uppers and Clothing	Colour fastness to water and perspiration	SATRA TM 335

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196	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather /Textiles	Water Absorption	SATRA TM 47
197	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather /Textiles	Water Vapour Permeability	SATRA TM 47
198	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather and Leather products	Flex resistance -Flexometer method	ISO 5402-1
199	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather and Leather Products	Flex resistance: Vamp flex method	ISO 5402-2
200	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather and Leather Products	Tear load - Double edge tear	ISO 3377-2
201	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather and Leather Products	Tests for colour fastness -- Colour fastness to crocking	ISO 20433
202	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather and Leather Products	Tests for colour fastness -- Colour fastness to Water	ISO 11642
203	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather and Leather Products	Water resistance of flexible leather: Repeated linear compression (penetrometer)	ISO 5403-1
204	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather and textiles used in footwear uppers	Water vapour permeability	SATRA TM 172
205	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather Products/Finished Leather	Break/pipiness	SATRA TM 36
206	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather Products/Finished Leather	Resistance to water penetration – Maeser test	SATRA TM 34
207	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather Products/Footwear	Resistance to damage due to contact with a Hot Surface	SATRA TM 49
208	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather Products/Sole Leather	Grain crack index of sole leather	SATRA TM 48
209	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather, other colored plastics and textiles	Colour fastness to rubbing – reciprocating method	SATRA TM 173
210	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather, textiles and coated fabrics	Colour fastness to water spotting of leathers, textiles and coated fabrics	SATRA TM 185
211	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather/ Footwear Upper and Lining Materials	Tensile strength of leather	SATRA TM 43
212	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather/ Leather Products/ Footwear	Density of leather and insole materials	SATRA TM 12
213	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather/Footwear	Adhesion of finish –Dead weight method	SATRA TM 408

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214	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather/Footwear	Resistance to scuffing by mild circular abrasion	SATRA TM 14
215	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather/Footwear Upper and Lining Materials	Extension at Break of Leather	SATRA TM 43
216	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather/Leather Products	Lastometer ball burst test - Distance/Length	SATRA TM 24
217	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather/Leather Products	Lastometer ball burst test - Weight/Load	SATRA TM 24
218	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather/Leather Products	Surface water absorption and repellency	SATRA TM 9
219	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather/leather products/fabric materials	Abrasion resistance – reciprocating method	SATRA TM 84
220	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather/Leather Products/Upper Material	Flexing Resistance of Upper Materials - Bally Flexometer	SATRA TM 55
221	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather/Wet Blue	Shrinkage temperature of leather	SATRA TM 17
222	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leathers	Leather – physical and mechanical tests – determination of water vapour permeability	ISO 14268
223	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leathers	Leather – physical and mechanical tests – Determination resistance to grain cracking and grain crack index	ISO 3378
224	MECHANICAL- LEATHER AND LEATHER PRODUCTS	leathers and textiles	Water vapour absorption	SATRA TM 178
225	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Metal and Metal Plated components	Atmospheric Sulphide Turnishing & Salt water corrosion	SATRA TM 310 (method-1 & 2)
226	MECHANICAL- LEATHER AND LEATHER PRODUCTS	particularly applicable to tabs on footwear with a gibson style forepart	Tab strength	SATRA TM 165
227	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Rubber and Plastic Materials	Bloom formation on polymeric materials (Accelerated ageing test)	SATRA TM 361
228	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Rubbers, plastics and any non-absorbent material	Density of materials by volume displacement	SATRA TM 134
229	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Seam cut from footwear	Measurement of strength of stitched seams in upper and lining materials	SATRA TM 180

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230	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Sheet materials	Transverse tensile strength of sheet materials	SATRA TM 80
231	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Shoe lace and tags	Attachment strength of shoe lace tags	SATRA TM 175
232	MECHANICAL- LEATHER AND LEATHER PRODUCTS	shoe laces	Breaking force and extension at break of shoe laces	SATRA TM 94
233	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Shoe laces and threads	Knot slippage test	SATRA TM 195
234	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Sole Leather	Dynamic water penetration test for sole	SATRA TM 41
235	MECHANICAL- LEATHER AND LEATHER PRODUCTS	steel shank	Fatigue test for steel shanks	SATRA TM 97
236	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Tapes and bindings	Breaking force, extension at break and tightness of tapes and bindings	SATRA TM 106
237	MECHANICAL- LEATHER AND LEATHER PRODUCTS	top piece from shoe heel	Strength of top-piece attachment	SATRA TM 108
238	MECHANICAL- LEATHER AND LEATHER PRODUCTS	touch and close fastener roll	Closure strength of touch and close fasteners	SATRA TM 123
239	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Types of sole Leather	Dynamic water penetration test for leather-Bally Permeometer	SATRA TM 220
240	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Whole Footwear/Sole	Peel strength of footwear sole bonds	SATRA TM 411
241	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Whole Footwear/sole	Rapid sole adhesion test – for complete footwear	SATRA TM 404
242	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Whole footwears and floorings	Friction (slip resistance) of footwear and floorings	SATRA TM 144
243	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Whole Leather	Leather – physical and mechanical tests – determination of thickness	ISO 2589
244	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber/Plastic coated Fabrics	Tear resistance: Constant rate of tear methods	ISO 4674-1
245	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber/Vulcanized/Thermoplastic	Abrasion resistance using a rotating cylindrical drum device	ISO 4649
246	MECHANICAL- TEXTILE MATERIALS	Coated and Treated Fabrics	Extension at break	ISO 1421

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247	MECHANICAL- TEXTILE MATERIALS	Coated and Treated Fabrics	Tear Strength	IS 7016-3 (Sec1)- Method-A
248	MECHANICAL- TEXTILE MATERIALS	Coated Fabrics and Treated Fabrics	Breaking Strength	ISO-1421
249	MECHANICAL- TEXTILE MATERIALS	Elasticated fabrics	Measurement of limit of useful extension of elastics	SATRA TM 102
250	MECHANICAL- TEXTILE MATERIALS	elasticated fabrics and extensible materials	Resistance of elastics to repeated extension	SATRA TM 103
251	MECHANICAL- TEXTILE MATERIALS	Footwear /Leather Products/Fabric Supports	Mass Per Unit area	SATRA TM 28
252	MECHANICAL- TEXTILE MATERIALS	Footwear/ Non-Leather Products/ Fabric Supports	Thickness of non-leather flexible sheet materials	SATRA TM 27
253	MECHANICAL- TEXTILE MATERIALS	Suitcase/ Bags/ Briefcases/ Holdolls/ Rucksacks	Luggage Handle strength-Static loading	SATRA TM 241
254	MECHANICAL- TEXTILE MATERIALS	Textile	Colour fastness to light,Textile	ISO 105-B02/IS 2454:1985
255	MECHANICAL- TEXTILE MATERIALS	Textile	Colour fastness to Perspiration	IS 971: 1983(2013)/TM 335:1994/ISO 105-E04
256	MECHANICAL- TEXTILE MATERIALS	Textile	Colour fastness to Rubbing	IS 766: 1988 (2017)/ ISO 105-X12: 2016/ TM 167
257	MECHANICAL- TEXTILE MATERIALS	Textile	Colour fastness to Washing	IS 687:1979/ISO 105-C10 (A1)
258	MECHANICAL- TEXTILE MATERIALS	Textile	Dimensional change due to relaxation percent	IS 833
259	MECHANICAL- TEXTILE MATERIALS	Textile / Fabric Materials	Woven fabrics -- Determination of mass per unit length and mass per unit area	ISO 3801
260	MECHANICAL- TEXTILE MATERIALS	Textile and Coated Textile Materials	Extension at Break	SATRA TM 29
261	MECHANICAL- TEXTILE MATERIALS	Textile Material	Textiles – oil repellency – hydrocarbon resistance	ISO 14419
262	MECHANICAL- TEXTILE MATERIALS	Textile Materials/ Non - Elasticated Sewing Threads	Linear Density	SATRA TM 72
263	MECHANICAL- TEXTILE MATERIALS	Textile Products/ Non-Leather/ Lining/ Upper Material	Tear strength – Trouser Leg Method	SATRA TM 30
264	MECHANICAL- TEXTILE MATERIALS	Textile Products/ Non-Leather/ Lining/ Upper Material/ Elastic	Strength perpendicular to needle perforation	SATRA TM 33

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265	MECHANICAL- TEXTILE MATERIALS	Textile/Coated Textile Materials	Breaking strength	SATRA TM 29
266	MECHANICAL- TEXTILE MATERIALS	Threads	Breaking force, extension at break, strength factor and tightness of threads	SATRA TM 74