National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION (ATIRA), PO AMBAWADI VISTAR, AHMEDABAD, GUJARAT, 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- ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Oxides of Nitrogen (NOx)	IS: 5182 (Part– 6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Particulate Matter (PM10)	IS : 5182 (Part – 23)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Particulate Matter (PM2.5)	USEPA Quality Assurance Hand Base, Vol. II (Part-II) Quality Assurance Guidance Document 2.12
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Sulphur Dioxide (SO2)	IS: 5182 (Part– 2)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Suspended Particulate Matter (SPM)	IS: 5182 (Part– 4)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stationary Source (Stack Emissions Monitoring)	Oxides of Nitrogen (NO2)	IS: 11255 (Part – 7)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stationary Source (Stack Emissions Monitoring)	Particulate Matter (PM)	IS: 11255 (Part – 1)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stationary Source (Stack Emissions Monitoring)	Sulphur Dioxide (SO2)	IS: 11255 (Part– 2)
9	CHEMICAL- PLASTIC & RESINS	Plastics and Polymers	Limiting Oxygen Index	ASTM D 2863-13 ISO 4589-2 1996 ISO 4589-3
10	CHEMICAL- PLASTIC & RESINS	Plastics and Polymers	Smoke Density	ASTM E662-13d ISO 5659-2(E)
11	CHEMICAL- PLASTIC & RESINS	Plastics and Polymers	Toxicity Index	NES 713 April 2006 NCD 1409(Specifcation no. RDSO/2006/CG-12) Dec
12	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Arsenic	ISO 11885
13	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Cadmium	ISO 11885
14	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Cobalt	ISO 11885
15	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Copper	ISO 11885
16	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Fluoranthene	DIN 38407-39/USEPA 8270
17	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Lead	ISO 11885

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18	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Mercury	ISO 12846
19	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Nickel	ISO 11885
20	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Silver	ISO 11885
21	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Total Chromium	ISO 11885
22	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Zinc	ISO 11885
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Ammonical Nitrogen	APHA 23rd Edition – 2017:4500/NH3 C
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Antimony	ISO 11885
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biological Oxygen Demand (BOD)	APHA 23rd Edition – 2017:5210/B
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chloride (as Cl)	APHA 23rd Edition – 2017:4500/Cl- B
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Colour	APHA 23rd Edition – 2017:2120/C
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Dissolved Oxygen (DO)	APHA 23rd Edition – 2017:4500 O C
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Fluoride (as F)	APHA 23rd Edition – 2017:4500/F- D
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH	APHA 23rd Edition – 2017:4500/H+
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phenol	ISO 14402-1999/APHA 5530 B,C & D
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphate (as SO4)	APHA 23rd Edition – 2017:4500/SO42- E
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphide (H2S)	APHA 23rd Edition – 2017:4500/S2- F
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphite	ISO 6703-1-2-3-1984/ USEPA 377.1
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Cyanide	ISO 6703-1-2-3-1984/APHA 4500-CN

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37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Dissolved Solids (TDS)	APHA 23rd Edition – 2017:2540/C
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Nitrogen	ISO 5663-1984/APHA4500N-C-2017/USEPA 351.2
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Phosphorus	ISO 11885-2009/ISO 6878
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids (TSS)	APHA 23rd Edition – 2017: 2540/D
41	CHEMICAL- RESIDUES IN WATER	Drinking Water	Arsenic	ISO 11885
42	CHEMICAL- RESIDUES IN WATER	Drinking Water	Barium	ISO 11885
43	CHEMICAL- RESIDUES IN WATER	Drinking Water	Iron	ISO 11885
44	CHEMICAL- RESIDUES IN WATER	Drinking Water	Silicon	ISO 11885
45	CHEMICAL- RESIDUES IN WATER	Drinking Water	Silver	ISO 11885
46	CHEMICAL- RESIDUES IN WATER	Drinking Water	Sodium	ISO 11885
47	CHEMICAL- RESIDUES IN WATER	Drinking Water	Total Chromium	ISO 11885
48	CHEMICAL- RESIDUES IN WATER	Drinking Water	Aluminium	ISO 11885
49	CHEMICAL- RESIDUES IN WATER	Drinking Water	Antimony	ISO 11885
50	CHEMICAL- RESIDUES IN WATER	Drinking Water	Boron	ISO 11885
51	CHEMICAL- RESIDUES IN WATER	Drinking Water	Cadmium	ISO 11885
52	CHEMICAL- RESIDUES IN WATER	Drinking Water	Calcium	ISO 11885
53	CHEMICAL- RESIDUES IN WATER	Drinking Water	Chromium	ISO 11885
54	CHEMICAL- RESIDUES IN WATER	Drinking Water	Cobalt	ISO 11885
55	CHEMICAL- RESIDUES IN WATER	Drinking Water	Copper	ISO 11885

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56	CHEMICAL- RESIDUES IN WATER	Drinking Water	Iron	ISO 11885
57	CHEMICAL- RESIDUES IN WATER	Drinking Water	Lead	ISO 11885
58	CHEMICAL- RESIDUES IN WATER	Drinking Water	Magnesium	ISO 11885
59	CHEMICAL- RESIDUES IN WATER	Drinking Water	Manganese	ISO 11885
60	CHEMICAL- RESIDUES IN WATER	Drinking Water	Mercury	ISO 12846
61	CHEMICAL- RESIDUES IN WATER	Drinking Water	Molybdenum	ISO 11885
62	CHEMICAL- RESIDUES IN WATER	Drinking Water	Nickel	ISO 11885
63	CHEMICAL- RESIDUES IN WATER	Drinking Water	Phosphorus	ISO 11885
64	CHEMICAL- RESIDUES IN WATER	Drinking Water	Potassium	ISO 11885
65	CHEMICAL- RESIDUES IN WATER	Drinking Water	Selenium	ISO 11885
66	CHEMICAL- RESIDUES IN WATER	Drinking Water	Silver	ISO 11885
67	CHEMICAL- RESIDUES IN WATER	Drinking Water	Strontium	ISO 11885
68	CHEMICAL- RESIDUES IN WATER	Drinking Water	Zinc	ISO 11885
69	CHEMICAL- RESIDUES IN WATER	Water	Arsenic	ISO 11885
70	CHEMICAL- RESIDUES IN WATER	Water	Cadmium	ISO 11885
71	CHEMICAL- RESIDUES IN WATER	Water	Cobalt	ISO 11885
72	CHEMICAL- RESIDUES IN WATER	Water	Copper	ISO 11885
73	CHEMICAL- RESIDUES IN WATER	Water	Fluoranthene	DIN 38407-39/USEPA 8270
74	CHEMICAL- RESIDUES IN WATER	Water	Lead	ISO 11885

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75	CHEMICAL- RESIDUES IN WATER	Water	Mercury	ISO 12846
76	CHEMICAL- RESIDUES IN WATER	Water	Nickel	ISO 11885
77	CHEMICAL- RESIDUES IN WATER	Water	Silver	ISO 11885
78	CHEMICAL- RESIDUES IN WATER	Water	Total Chromium	ISO 11885
79	CHEMICAL- RESIDUES IN WATER	Water	Zinc	ISO 11885
80	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	IS 1350(Part I)
81	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	IS 1350 part 2
82	CHEMICAL- SOLID FUELS	Coal	Proximate Analysis-Ash	IS 1350 part 1
83	CHEMICAL- SOLID FUELS	Coal	Proximate analysis-Moisture on Air dry Basis	IS 1350 part 1
84	CHEMICAL- SOLID FUELS	Coal	Proximate Analysis-Volatile	IS 1350 part 1
85	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Blend Analysis	IS: 3416 Part 1, ISO 1833-11 AATCC-20A, IS:2006, ISO 1833-4, IS:3421, ISO:1833-12, IS:1889 Part IV
86	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Artificial Light: Xenon Arc fading lamp test	ISO 105 B02 2014, IS 2454
87	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Crocking-AATCC Crockmeter	AATCC 8
88	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to domestic and commercial laundering using non-phosphate reference detergent incorporating a low temperature bleach activator	ISO 105 c 08
89	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to domestic and commercial laundering-Oxidative bleach response using non-phosphate reference detergent incorporating a low bleach activator	ISO 105 C09
90	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Domestic and Commercial Laundry	ISO 105 C 06-2010, IS 13025
91	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Dry Cleaning	ISO 105 D01 2010, AATCC 132 2013, IS 4802

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92	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Hot pressing	ISO 105 X11 1994, AATCC 133 2913, IS 689,
93	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Laundry Accelerated	AATCC 61 No.1A-5A
94	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Perspiration	ISO 105-E04, IS 971, AATCC 15
95	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Rubbing	ISO 105-X12 2016, IS 766
96	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to Washing with Soap and Soda	ISO 105 C10-2006 IS/ISO 105 C10
97	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Fastness to water	ISO 105 E01 2013, AATCC 132 2013, IS 767
98	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Performance of High-Visibility warning clothing	DIN EN ISO 20471:2013 EN 471: 2003 + A1: 2007 EN 1150:1999 IS 15809
99	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Colour Performance of High-Visibility warning clothing	DIN EN ISO 20471:2013 EN 471: 2003+A1: 2007 EN 1150: 1999 IS 15809
100	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Ether Soluble Matter	IS: 4390
101	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Fatty Matter	IS: 199
102	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Fibre Identification	IS: 667
103	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Identification of Dyes	IS 4472-Part-I
104	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Instrumental Colour difference measurement (CMC: Calculation of Small Colour Differences for Acceptibility) "Relative Colour Strength of Dyes in Solution"	AATCC Test Method 173-2015 AATCC Test Method 182-2011 SAE J 1767
105	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	pH of Aqueous Extracts	IS: 1390-1983 RA 2004 ISO 3071-2005 AATCC 81
106	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Total Size or Finish	IS 199
107	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabric	Water Soluble Matter	IS: 3456
108	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibre, Yarn, Fabrics	Scouring Loss	IS: 1383

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109	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer Metrix Composites	Apparent interlaminar shear strength by short-beam method	ASTM D2344-06, ISO 14130
110	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer/plastics	Rockwell Hardness	ISO 2039-2:1987/ ASTM D785-08
111	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Subgroup1 Unreinforced and Reinforced Plastics	Reaction to fire tests -- Ignitability of products subjected to direct impingement of flame -- Part 2: Single-flame source test	ISO 11925-2
112	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Subgroup1 Unreinforced and Reinforced Plastics	Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances testing 1. Horizontal Burning 2. Vertical Burning 3. 45° angle Burning	UL 94:2013 (Class 7, Class 12) :1998 ASTM D635-14 ASTM D4986-10 ISO 9772 : 3rd Edition 2012 IS 11731(Part 1), UL 94:2013 (Class 8, Class 9, Class 11) IS 11731 (Part 2)
113	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Compressive Properties of Rigid Plastics	ASTM D695-15 ISO 604
114	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Density and Specific Gravity (Relative Density) by Displacement (Method A)	ASTM D792-13
115	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Flexural Properties	ASTM D790-15e2 ISO 14125:1998 Method- A, Amendment 1:2011 ISO 178:2010/ Amendment
116	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Heat Release Rate (Cone Calorimeter Method)	ISO 5660-1
117	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Indentation Hardness of Rigid Plastics by Means of Barcol Impressor	ASTM D2583-13a
118	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unreinforced and Reinforced Plastics	Tensile Properties of Plastics	ASTM D638-14 ISO 527-4:1997 ASTM D3039-14
119	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	AFIS- Neps/g	ATSM D 5866
120	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	AFIS-Length	STP/TT/Fi/2, Issue No. 9, Uster standard test method 1997
121	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	AFIS-neps Size (mu)	ASTM D 5866
122	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	AFIS-SCN size (mu)	ASTM D 5866

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123	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	AFIS-Short fibre content(%)	STP/TT/Fi/2, Issue No. 9, Uster standard test method 1997
124	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	Fibre Fineness(mtex)	STP/TT/Fi/2, Issue No. 00,2018, Uster standard test method 1997
125	MECHANICAL- TEXTILE MATERIALS	Cotton fibers	HVI-Colour whiteness (Rd)	STP/TT/Fi/1 Issue No. 9, Uster Standard Test Method 1997
126	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	HVI-Colour Yellowness (+b)	STP/TT/Fi/1 Issue No. 9, Uster Standard Test Method 1997
127	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	HVI-Elongation%	ASTM D 5867-05, ISO 4913 1981, IS 233 part 4
128	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	HVI-Length	ASTM D 5867-12 e1, ISO 4913 1981, IS 233 part 4
129	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	HVI-Length Uniformity	ASTM D 5867-12 e1, ISO 4913 1981, IS 233-Part 4
130	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	HVI-Micronaire	ASTM D 5867-12 e1
131	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	HVI-Short Fibre %	STP/TT/Fi/1 Issue no.00,2018 (Uster Standard Test method-1997)
132	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	HVI-Strength	ASTM D 5867-12e1 ISO 4913: 1981 IS 233 Part 4
133	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	Immature Fibre Content	STP/TT/Fi/2 Issue no.900 (Uster Standard Test Method-1997)
134	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	Maturity Ratio	STP/TT/Fi/2, Issue No. 00,2018, Uster standard test method 1997
135	MECHANICAL- TEXTILE MATERIALS	Cotton Fibers	Total Trash (%)	ASTM D 2812 - 2017, IS 4871
136	MECHANICAL- TEXTILE MATERIALS	Fabric, Garment	Crimp of warp and weft yarn removed from fabric	IS 3442-1980 (RA2014) ISO 7211- 3 1984 ASTM D 3883-04(2016)
137	MECHANICAL- TEXTILE MATERIALS	Fabric/Garment	Abrasion Resistance (Martindale)	ISO 12947(2)RA 2018,ISO 12943(3) RA 2018 ISO 12947(4) 2018,ASTM D 4966-2016, IS 12673(RA2010)EN 288:2016
138	MECHANICAL- TEXTILE MATERIALS	Fabric/garment	Horizontal Flammability	ISO 3795:1989, ASTMD5132: 2017,IS 15061:2002 (RA2012), SAE J 369

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139	MECHANICAL- TEXTILE MATERIALS	Fabric/Garments	Bursting Strength	ISO 13938-1 1999,ASTM D 3786-M-2018
140	MECHANICAL- TEXTILE MATERIALS	Fabrics(Woven & Nonwoven)	Pore Size Analysis	ASTM D 6767
141	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	45 Degree Flammability	ASTM D 1230- 10(RA 2017) 16 CFR 1610 IS 11871 1986 procedure A RA 2004
142	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Abrasion Resistance (Martindale)	ISO 12947(1) 1998 ISO 12947(2) 1998 ISO 12947(3) 1998 ISO 12947(4) 1998 ASTM D 4966-2016 IS 12673(RA 2010) EN 388
143	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Absorbancy	AATCC 79-2014 IS 2349-1963 RA
144	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Air Permeability	ISO 9237-1995 ASTM D 0737-04(2018) IS 11056- 2013 EDANA 140.2- 99 ISO 9073-15
145	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Count of Warp/Weft	IS 3442-1980 RA 2008, ISO 7211-5- 1984
146	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Crease Recovery by measuring angle of recovery	ISO 2313-1972 IS 4681 1981(RA 2004) AATCC 66
147	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Dimensional Stability to Dry Cleaning	ISO 3759 2017/ ISO 3175-2 2010, AATCC 158-2016 IS 15612 Part 2 Annexure C
148	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Dimensional Stability after exposure to heat	IS 11815-1986 Annexure B & Annexure C
149	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Dimensional Stability after immersion in water	ISO 7771-1985 AATCC 99-2004 IS 2977
150	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Dimensional Stabillity to domestic Laundry	ISO 5077 2007/ ISO 6330 2012AATCC 135-2018 AATCC 150-2018 IS 1299
151	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Drape Coefficient	ISO 9073-9 2008, Method A IS 8357- 1977*RA 2008) EDANA 90.4 99: 2018
152	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Measurement of Skew, Bow and Spirality	ASTM D 3882-08
153	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Oil Repellency	AATCC 118-2013 ISO 14419 RA:
154	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Pilling Resistance(Pill Box)	ISO 12945-1 2000 IS 10971 part 2011

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155	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Pilling Resistance(Martindale)	ISO 12945-2 2000 IS 10971 part 2 2011 ASTM D 4970/4970M16e3
156	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Seam Performance (Seam strength and Seam Slippage)	ASTM D 434-95 ASTM D 1683/D 1683M-17e1 ISO 13935-1 2014 ISO 13935-2 2014 ISO 13936-1 2004ISO 13936-2 2004
157	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Seam Performance(Seam Strength and Seam Slippage)	ASTM D 434-95 ASTM D 1683/ D 1683M-17e1 ISO 13935-1 2014 ISO 13935-2 2014 ISO 13936-1 2004 ISO 13936 2. 2004
158	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Spirality/ Skewing of Fabrics & Garments	AATCC 179-2017 ISO 16322-2 2021 ISO 16322-3
159	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Tarpezoidal Tear	ASTM D 5587 2015, IS 6489 part 3
160	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Tear Strength (Elmendorf)	ISO 13937-1:2000 ASTM D 1424 09 2013 IS 6489 part 1 2011 Ra 2017 IS 7016-2017 part3 sec 2
161	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Tensile - Elongation (Strip Test)	ISO 13934-1: 2013 IS 1619-2010 ASTM D 5035-11(RA 2015) IS 7016-1981(Part II)
162	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Tensile Strength & Elongation (Strip Test)	ISO 13934-1:2013 IS 1969-2010 ASTM D 5035-11(RA 2015) IS 7016-1981(Part II)
163	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Thermal Resistance	ISO 11092-2014, ASTM F 1868-2017, NFPA 1971
164	MECHANICAL- TEXTILE MATERIALS	Fabrics/garments	Tongue Tear(Double)	ISO 13937-4: 2000 IS 7016-2017 (Part 3/ sec 1 method A:
165	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Tongue(Trouser Shape) Tear(Single)	ISO 13937-2:2000 ASTM D 2261-13 EN 388:2016 IS 7016-17 (Part III) RA Method A2

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166	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Verical Flammability: Flame spread of Vertically Oriented specimen	ISO 6941-2003 BS 5438-1989 (1A and 2A) IS 15612-2005(Part 4)RA 2013IS 15612 2006 (Part2 RA 2013) IS 11871-1986Procedure A(RA 2013) ASTM D 6413/D6413M-2015 EN 407 (sec 6.3)
167	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Vertical Flammability: Ease of Ignition of vertically oriented specimen	ISO 6940-2004 ISO 15589-2005 RA 2013 IS 15612-Part 3
168	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Vertical Flammability: Flame Spread properties of Vertically oriented specimen	ISO 6941-2003 BS 5438-1989 (1A and 2A) IS 15612-2005(Part 4) IS 15612 2006 Part2) IS 11871-1986 Procedure A(RA 2013) ASTM D 6413/D6413M-2015 EN 407 (sec 6.3)
169	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Water Resistance Hydrostatic Head Test	ISO 811-2018 EN 20811-1992 AATCC 127-2017 EDANA 120.2-02 ISO 9073- 16 2007 BS 2823 1982 IS 391
170	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Water Vapour Resistance	IS0 11092-2014, ASTM F 1868-2017,NFPA 1971
171	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Water Repellency(Spray Test)	ISO 4920-2012 AATCC 22 2017 IS 390
172	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Weight per unit area	776m-09a/ Option C IS 1964-2001(RA 2017) ISO 3801
173	MECHANICAL- TEXTILE MATERIALS	Fabrics/Garments	Wing rip Tear	ISO 13937-3
174	MECHANICAL- TEXTILE MATERIALS	Fibers	AFIS Seed Coat Neps	ASTM D 5866
175	MECHANICAL- TEXTILE MATERIALS	Fibers	Fibre Denier (Gravimetric method)	ASTM D 1577-2017 IS 234-1973 (RA 2013) ISO 1973
176	MECHANICAL- TEXTILE MATERIALS	Fibers	Number of Crimps per mm	ASTM D 3937-12 (option 2)
177	MECHANICAL- TEXTILE MATERIALS	Fibers	Single Fibre Breaking Elongation (%)	ASTM D 3822- 07(2014), IS 235-1989 RA 2014, ISO 5079
178	MECHANICAL- TEXTILE MATERIALS	Fibers	Single Fibre Breaking Strength	ASTM D 3822-07 (2014), IS 235-1989 RA 2014, ISO 5079
179	MECHANICAL- TEXTILE MATERIALS	Fibers	Single Fibre Length measurement	BISFA standard 2007, ISO 6989-1981, IS 10014-Part 1

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180	MECHANICAL- TEXTILE MATERIALS	Fibres,Yarns,Fabrics	Moisture Content Moisture Regain	ISO 6741-1 :1989 ASTM D 2654-89a, IS 199
181	MECHANICAL- TEXTILE MATERIALS	GeoTextile/Nonwoven material	Weight	ISO 9864 : 2005 ASTM D 5261-10, ISO 9073-1- 1989 EDANA 40.3
182	MECHANICAL- TEXTILE MATERIALS	Geotextiles, Nonwoven material	Wide Width Tensile Properties	ISO 10319 :2015 ASTM D 4595-17
183	MECHANICAL- TEXTILE MATERIALS	Geotextiles/ Nonwoven materials	Index Puncture Resistance	ASTM D 4833-07
184	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven material	Tensile Strength(Strip Test)	ISO 9073-3 :1989 ASTM D 5035-11
185	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven material	Tensile Strength(Strip Test)	ISO 9073-3 :1989 ASTM D 5035-11
186	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Abrasion Resistance	STP/TT/Fa/C/107Issue No 9: (based on BAW (Federal Waterway Engineering and Research Institute, Germany)Test method
187	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	CBR Puncture	ISO 12236 : 2006ASTM D 6241
188	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Determination of water flow capacity in their Plane	ISO 12958-2010/ ASTM D 4716
189	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Dynamic Perforation Test(Cone Drop)	ISO 13433-01
190	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Nominal Thickness at Secified Pressures	ASTM D 5199-12 ISO 9863-1, Method A-2005 ASTM D 1777-1996 (RA2015)
191	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Seam/Join Tensile/Peeling Strength	ISO 10321-2008 ISO 13426-1
192	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Tensile properties of Geogrids	ASTM D 6637
193	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Tensile Strength (GrabTest)	ASTM D 4632-2015 ISO 9073-18
194	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Trapezoidal Tear	ASTM D 4533-15 (Geo) ISO 9073-4 1997 IS 14293-1995(RA2014) EDANA 70.4-99

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195	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	UV Resistance(Measurement of Strength after 500 hrs Accelerated Exposure to Light, Moisture and Heat in a Xenon Arc Type Apparatus)	ASTM D 4355
196	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Water Permeability by Permitivitty	ASTM D 4491- 99a(2009) ISO 11058
197	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Water Permeability by Permittivity	ASTM D 4491- 99a(2017) ISO 11058
198	MECHANICAL- TEXTILE MATERIALS	Geotextiles/Nonwoven materials	Water permittivity Test(Under Load)	ISO 10776
199	MECHANICAL- TEXTILE MATERIALS	Hi-Vis Fabric /Garment (Reflective material)	Coefficient of Retroreflection	DIN EN ISO 20471- 2017 EN 471 -2008- 03 EN 1150 â€“1999 IS 14221
200	MECHANICAL- TEXTILE MATERIALS	Knitted Fabric, Garment	Stitch density / Knitted Fabric Construction	ASTM D 8007
201	MECHANICAL- TEXTILE MATERIALS	Protective Clothing/Garment/Accessories	Limited Flame Spread	ISO 15025:2016, IS 15758:2007 (Part 4), ISO 14116
202	MECHANICAL- TEXTILE MATERIALS	Protective clothing/Garments/ Accessories	Contact Heat Transmission	ISO 12127-1:2015 EN 702
203	MECHANICAL- TEXTILE MATERIALS	Protective Clothing/Garments/ Accessories	Heat Transfer	ISO 17493-2016 NFPA 1975-1975 Section 8
204	MECHANICAL- TEXTILE MATERIALS	Protective Clothing/Garments/Accessories	Convective Heat Resistance	ISO 9151 2016, IS 15758 Part 1
205	MECHANICAL- TEXTILE MATERIALS	Protective Clothing/Garments/Accessories	Radiant Heat	ISO 6942 -2002 IS 15758 - 2007 (Part 2)
206	MECHANICAL- TEXTILE MATERIALS	Protective Clothing (Gloves) Blade	Blade Cut Resistance (Index)	EN 388 2003 (Sec 6.2):
207	MECHANICAL- TEXTILE MATERIALS	Protective Clothing (Gloves)	Puncture Resistance	EN 388 (Sec 6.4)
208	MECHANICAL- TEXTILE MATERIALS	Textile material, Plastic	Accelerated exposure of textile material using a controlled irradiance Xenon Arc apparatus	ASTM G 155 Cycle 1-2013 ISO 4892-2- 2016ISO 16474-1:2016 ASTM D 7869
209	MECHANICAL- TEXTILE MATERIALS	Textile material, Plastic	Standard Practice for UV exposure for Plastic	ASTM D 4329-2013 ASTM G 154-2016 ISO 4892-3-2016 ISO 16474-1:2013IS 14887

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210	MECHANICAL- TEXTILE MATERIALS	Textile material/Plastic	Accelerated exposure of Automotive interior trim components using a controlled irradiance Xenon Arc apparatus	SAE J 2412-2015 SAE J 1885
211	MECHANICAL- TEXTILE MATERIALS	Yarn	Classification of long length rare occurring faults (Classimat Quantum Analysis)	ASTM D 6197
212	MECHANICAL- TEXTILE MATERIALS	Yarn	Classification of long length rare occurring faults(Classimat Quantum Analysis) - Long thick	ASTM D 6197
213	MECHANICAL- TEXTILE MATERIALS	Yarn	Yarn Unevenness(U%)	ISO 16549-2004, ASTM D 1425
214	MECHANICAL- TEXTILE MATERIALS	Yarns	Classification of long length rare occurring faults (Classimat Quantum Analysis) - Small thick	ASTM D 6197
215	MECHANICAL- TEXTILE MATERIALS	Yarns	Imperfections/Km (Thin, Thich, Neps), CVm%, Spectrogram	ISO 16549-2004; STP/TT/Y/7 Issue no.9 (Uster standard Test Method 1997):
216	MECHANICAL- TEXTILE MATERIALS	Yarns	Imperfections/Km (Thin, Thick & Neps), CVm%, Spectrogram	ISO 16549-2004; STP/TT/Y/7 Issue no.9 (Uster standard Test Method 1997):
217	MECHANICAL- TEXTILE MATERIALS	Yarns	Lea Strength	ASTM D 1578- 93(2016); IS 1315- 1977 RA 2008 ISO 6939
218	MECHANICAL- TEXTILE MATERIALS	Yarns	Single Yarn Strength	STP/TT/Y/11-Issue No.00-2018(Uster Standard Test method 1999)
219	MECHANICAL- TEXTILE MATERIALS	Yarns	Single Yarn Strength and Elongation %	ASTM D 2256/D 2256 M10 e1 RaA 2015;IS 1670 -1991 RA 2007,ISO 2062
220	MECHANICAL- TEXTILE MATERIALS	Yarns	Single Yarn Strength - Elongation %	STP/TT/Y/11-Issue No(Uster Standard Test Method 1999)
221	MECHANICAL- TEXTILE MATERIALS	Yarns	Single Yarn Strength-Elongation	STP/TT/Y/11- Issue 00(Uster Standard TEst method 1999)
222	MECHANICAL- TEXTILE MATERIALS	Yarns	Single Yarn Strength-Elongation	STP/TT/Y/11Issue No 00(Uster Standard TEst Method 1999)
223	MECHANICAL- TEXTILE MATERIALS	Yarns	Single Yarn Strength-Elongation	STP/TT/Y/11-Issue No 00, (Uster Standard Method 1999)
224	MECHANICAL- TEXTILE MATERIALS	Yarns	Single Yarn Twist	ASTM D 1422-13;IS 832-95RA1999,ISO 17072

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225	MECHANICAL- TEXTILE MATERIALS	Yarns	Yarn Linesr Density	ASTM D 1907/D 1907 M-12;IS 1315-1977,R 2014,iISO 2060
226	MECHANICAL- TEXTILE MATERIALS	Yarns	Yarn Twist	ASTM D 1423-02 RA 2008;IS 832-1985;ISO 2061