



Testing Capability List

Sr. No	Test Name	Test Standard
Fiber Testing		
1	Single Fiber Strength test	ASTM D 3822
2	Single Fiber Linear Density (vibroscope method)	ASTM D 1577, ISO 1973
3	Single Fiber Crimp Properties (synthetic)	HOECHST- (TREVIRA-) method
4	Single Fiber Length	ASTM D 5103
5	Fiber Composition (Qualitative)	AATCC 20
6	Fiber Composition (Quantitative) upto 2 fibre	AATCC 20A, ISO 1833
7	Fiber Composition (Quantitative) upto 3 fibre	AATCC 20A, ISO 1833
8	Fiber Composition (Quantitative) upto 4 fibre	AATCC 20A, ISO 1833
9	Cotton Fineness	ISO 2403, ASTM D 1148-11
10	Cotton Fiber Length and length uniformity	ISO 6989, ASTM D5103-7
11	Cotton Breaking Strength by Pressley Tester.	ASTM D 1445-12, ISO 3060:1974
12	Cotton Trash Content	ASTM D 5867-5
13	Fiber Moisture Content	ASTM D 2495-12
14	Cotton Fiber Tests (HVI)	ASTM D5867-12
15	Fiber Fragment Release During Home Laundering	AATCC 212
Yarn Testing		
16	Yarn Unevenness (USTER-5)	ASTM D1425
17	Linear Density by Skein Method	ASTM D 1907, ISO 2060
18	Linear Density by Short Length Method	ASTM D 1059
19	Tensile Properties of Single Yarn	ASTM D 2256, ISO 2062
20	Lea Breaking Strength	ASTM D 1578, ISO 6939
21	Filament Shrinkage-force or percent shrinkage	Standard Protocol
22	Filament Draw-force of POY, FDY or FOY	Standard Protocol
23	Crimp-force or percent crimp of Texturised Yarn	Standard Protocol
24	Twist by Contraction Method	ASTM D 1422, ISO 17202
25	Twist by Direct Method	ASTM D 1423, ISO 2061
26	Classification of Yarn Faults	Standard Protocol
27	Yarn Crimp and Yarn Take-up in Woven Fabric	ASTM D 3883-4
28	Yarn Type Analysis	ASTM D 3887-4
29	Yarn Coefficient of Kinetic friction	ASTM D 3108
Textile Physical Testing		
30	Fabric Width	ASTM D 3774, ISO 22198
31	Fabric GSM	ASTM D 3776, ISO 3801
32	Fabric Construction	ASTM D 3775
33	Pilling Resistance by Martindale Tester upto 2000 Rev	ASTM D 4970-12, ISO 12947-2
34	Pilling Resistance by ICI Method upto 6 hrs	ISO 12945-1, BS 8479
35	Tearing Strength by Elmendorf Tester	ASTM D 1424-04, ISO 13937-1
36	Tearing Strength (trouser Shaped, single rip)	ISO 13937-2
37	Tear Strength (wing shaped)	ISO 13937-3
38	Random Tumble Pilling	ISO 12945-3, ASTM D 3512
39	Bursting Strength of Fabrics	ISO 13938-2 ASTM D 3786
40	Breaking Strength by Grab Method	ASTM D 5034, ISO 13934-2
41	Stretch Properties of Fabrics	ASTM D 6614
42	Abrasion Resistance 5000 -10000 Rev	ISO 12947-2, ASTM D4966
43	Crease Recovery of Woven Fabric	AATCC 66, ISO 2313
44	Wrinkle Recovery	AATCC 128
45	Dimensional Stability to Washing (Fabrics) After 1 Wash	AATCC 135/ ISO 6330



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46	Dimensional Stability to Washing (Garments) After 1 Wash	AATCC 150
47	Smoothness of Seams in Fabrics after After 1 Wash	AATCC 88 B
48	Retention of Creases in Fabrics after After 1 Wash	AATCC 88 C
49	Skew Change After 1 Wash	AATCC 179/ SIO 16322-2
50	Smoothness Appearance After 1 Wash	AATCC 124, ISO 15487
51	Soil Release of Fabric After 1 Wash	AATCC 130
52	Color Evaluation by Spectrophotometer	AATCC Evaluation Procedure
53	Breaking Strength by Strip Method	ASTM D 5035, ISO 13934-1
54	Seam Strength	ISO 13935-1/2, ASTM D 1683
55	Weave Identification	Lab Developed
56	Weave and Design Pattern	ASTM D 3775
57	Gauge of Knitting Fabric	Standard Protocol
58	Courses and Wales of Knitted Fabric	Standard Protocol
59	Thickness of Fabric	ASTM D1777, ISO 5084
60	Bow and Skew in fabric	ASTM D 3882, ISO 13015
61	Color Fastness to Sea Water	AATCC TM 106, ISO 105-E02
62	Dye-ability of fabric	Standard Protocol
63	Color Fastness to Perspiration	AATCC 15, ISO 105-E04
64	Color Fastness to Water	ISO 105-E01, AATCC 107
65	Color Fastness to Saliva	GB/T 18886, DIN 53160-1
66	Color Fastness to Washing	ISO 105-C1/2/3/6, AATCC 61
67	Color Fastness to Dry Cleaning	AATCC 132, ISO 105-D01
68	Color Fastness to Light upto 24 hrs	ISO 105-B02, AATCC 16.3
69	Color Fastness to Weathering upto 24 hrs	ISO 105 B04
70	Color Fastness to Perspiration Light upto 24 hrs	AATCC 125
71	Color Fastness to NaCl Bleach in Home Laundering	AATCC 188
72	Color Fastness to Crocking	AATCC 08, ISO 105-X12
73	Color Fastness to Storage: Dye Transfer	AATCC 163
74	Absorbency of Textiles	AATCC 79
75	Vertical/Horizontal Wicking of Textiles	AATCC 197
76	Phenolic Yellowing of Textiles	ISO 105 X-18
77	Fault in Cloth	Standard Protocol
78	Identification of yarn/Fabric	Standard Protocol
79	Percentage of yarn in Fabric (per side)	Standard Protocol
80	Visual assessment of color difference of textile	AATCC EP 9
81	Opacity/Light Blocking	AATCC 203
82	Attachement Pull Test	ISO /ASTM
83	Size Identification of Graige Goods	Standard Protocol
84	Biodegradability of Textile Fabrics	ISO 11721-1
85	Resistance to micro-organisms (soil burial test)	BS 6085
86	Zip Strength Test	Standard Protocol
87	Attachment Pull Tests/ Snap Test	Standard Protocol
Textile Comfort Testing		
88	Thermal Properties of fabric (Sweat Guard Hotplate)	ISO 11092, ISO 8096, F 1868-02
89	Water Vapor Permeability (Sweat Guard Hotplate)	ISO 11092, ISO 8096, F 1868-02
90	Thermal Properties of fabric (Permeatest)	ISO 11092, ISO 8096, F 1868-02
91	Water Vapor Permeability (Permeatest)	ISO 11092, ISO 8096, F 1868-02
92	Water Vapor Permeability (Cup Method)	BS-3424-34, ISO/BS 720, ISO 8096



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93	Air Permeability Test	ASTM D 737 , ISO 9237
94	Relative Hand value Using Phabrometer	AATCC TM-202
95	Fabric Stiffness	ASTM D 4032
96	Moisture Management of Textile (MMT)	AATCC 195
97	Drying Rate Test	AATCC 199, ISO 17617
98	Fabric Drape Test	BS 5058
99	Kawabata Shear Test	KES-FB1
100	Kawabata Bending Test	KES-FB2
101	Kawabata compression Test	KES-FB3
102	Kawabata Surface Test	KES-FB4
103	Kawabata Thermal Test	KES-FB7
104	Fabric Touch Properties of Fabric (Bending, Compression)	Standard Protocol
Protective Testing		
105	Vertical Flammability	ASTM D 6413
106	Flammability	16CFR, ISO 12952-1 ,EN 597-1, ISO 15025-1, ISO 6940-41, BS 7837, BS EN 1625, BS 5815-3, A 688 (17), ISO 12952-2, BS 5852-1,EN 7177, CPAI 84, EN 597-2
107	Burning behaviour of Textiles	ISO 6940, ISO 15025, BS 7837, ISO 6941:2003, BS 1625
108	Limiting Oxygen Index Test	ISO 4589-1 ASTM D 2863
109	Static Charge Test (Conductivity Tester)	EN 1149-1, EN 1149-2
110	UV/Sun Protection Factor Test	AATCC 183
111	Coup Cut Resistance Test	EN 388
112	Abrasion Resistance	EN 388
113	Puncture Resistance	EN 388
114	Tear Resistance	EN 388
115	Water Repellency (Spray Method)	AATCC 22
116	Water Resistance of Fabric (Hydrostatic Head Test)	ISO 811, AATCC 127
Analytical Testing		
117	Atomic Absorption	Standard Protocol
118	Particle size Analysis (Zeta Potential)	Standard Protocol
119	Material Identification by FTIR	Standard Protocol
120	Differential Scanning Calorimeter (DSC)	ASTM D 3418
121	Electro-Kinetic Potential (Zeta Potential) of Fabric	Standard Protocol
122	Dynamic Mechanical Analyzer	ASTM D 4065
123	Thermogravimetric Analyzer	Standard Protocol
124	Dilatometer	Standard Protocol
125	Rheometer	Standard Protocol
126	Drop Weight Impact Tester	Standard Protocol
127	Pendulum Impact Tester	Standard Protocol
128	Melt Flow Index	Standard Protocol
129	Total Insoluble matters	Standard Protocol
130	Chemical Screening /Evaluations	Standard Protocol
131	Solid Contents of Chemicals	Standard Protocol
132	Purity Percentage of Acids	Standard Protocol
133	Purity Percentage of Bases	Standard Protocol



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134	Purity Percentage of Hydrogen Per Oxide	Standard Protocol
Hazardous Material testing		
135	AZO Dyes (Textile)	ISO 14362-1&3:2017
136	Alkyl Phenol Ethoxylate APEO(Textile)	ISO 18254-I
137	Alkyl Phenol (AP) (Textile)	ISO 21084:2019
138	Polyvinyl chloride (PVC) & Polyurethane (PU)	Inhouse/FTIR
139	Phthalates (Textile)	ISO 14389:2014
140	Phthalates (Polymer)	CPSC-CH-C1001-09.4
141	Formaldehyde (Textile)	AATCC.112, ISO 14184-1, iso 14184-2, JISL 1041:2011
142	Odor (Textile)	SNV 195651
143	Extractable heavy metals Single Element(Textile)	EN 16711-2:2016
144	Extractable heavy metals Multi Element(Textile)	EN 16711-2:2016
145	Total Lead (Pb) in Children's Metal Products	CPSC-CH-E1001-08.3
146	Total Cadmium	EN 1122
147	Lead (Pb) in Paint and Other Similar Surface Coatings	CPSC-CH-E1003-09.1
148	Total Lead (Pb) in Nonmetal children's Products	CPSC-CH-E1002-08.3
149	Azo Dyes in Leather	ISO 17234-1:2020
150	Extractable heavy metals (Leather) multi Element	ISO 17072-1:2019
151	Migration of certain Elements	Safety of Toys EN 71-3
152	Determination Of Chloro-Organic Carriers In Textile And Leather	EN 17137:2018
153	Aniline	ISO 14362-1
Anti-Bacterial Testing		
154	Antibacterial Activity (Qualitative)	AATCC 147
155	Antibacterial Activity (Quantitative)	AATCC 100
Chemical Testing		
156	Viscosity of Solution	
157	Surface Tension of Liquids	ASTM D 1331
158	pH of Liquids	Standard Protocol
159	pH of water-Extract from Textiles	ISO 3071, AATCC 81
160	Dye Class Identification Test	Standard Protocol
161	Comparisons of dyes and auxiliaries	Standard Protocol
162	Size Percentage and finish percentage	AATCC 94
163	Evaluation of printing thickener/Binder	Standard Protocol
164	Available chlorine test	IS 2350:1963
165	Chemical Comparison	Standard Protocol
PPE's Testing		
166	Resistance to body Fluids/Synthetic Blood	ISO 16603
167	Water Impact Penetration	AATCC 42
168	Puncture Resistance	EN 388
169	Cut Resistance Properties of Gloves/Fabrics	EN 388
170	Differential Pressure	BS EN 14683
171	Splash Resistance (synthetic blood)	ISO 22609
172	Particle Filtration Efficiency	EN 143
HEMP Fiber Testing		
173	HEMP Chemical Analysis	Standard Protocol
174	Young's modulus	Standard Protocol



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175	Density	Standard Protocol
176	Tenacity	Standard Protocol
177	Elongation at Break	Standard Protocol
178	Breaking Stress	Standard Protocol
Water Testing		
179	chemical oxygen demand	Standard Protocol
180	TDS	Standard Protocol
181	Water Hardness	Standard Protocol
182	Total Heavy Metals	Standard Protocol