



Ahmedabad Textile Industry's Research Association (ATIRA)

PO: Ambawadi Vistar, Ahmedabad – 380015

Test Charges:

Sr. No.	Type of sample	Test Parameter Name	Test Method Code	Test Charges (without GST) INR
1	Cotton Fibres	Determination of Neps in Cotton Fibres (AFIS - Neps/g)	ASTM D5866	400
2	Cotton Fibres	AFIS - Length AFIS - Short fibre content (%)	STP/TT/Fi/2 Issue No 9, Uster Standard Test Method 1997	400
3	Cotton Fibres	Fibre Fineness(mtex) AFIS	STP/TT/Fi/2 Issue No 00 2018, Uster Standard Test Method 1997	400
4	Cotton Fibres	Measurement of Physical Properties of Cotton Fibers by HVI - Elongation%	ASTM D5867-05	150
5	Cotton Fibres	Determination of length (span length) and uniformity index of cotton fibres	ISO 4913	150
6	Cotton Fibres	Estimation of length, uniformity ratio and uniformity Index of cotton fibres (Optical scanning method)	IS 233-4	150
7	Cotton Fibres	Measurement of Physical Properties of Raw Cotton by HVI - Length	ASTM D5867-12 E1	150
8	Cotton Fibres	HVI - Short Fibre %	STP/TT/Fi/1 Issue No 00 2018, Uster Standard Test Method 1997	150
9	Cotton Fibres	Measurement of Physical Properties of Raw Cotton by HVI - Strength	ASTM D5867-12 E1	150
10	Cotton Fibres	Immature Fibre Content	STP/TT/Fi/2 Issue No 9, Uster Standard Test Method 1997	400



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11	Cotton Fibres	Maturity Ratio	STP/TT/Fi/2 Issue No 00 2018, Uster Standard Test Method 1997	400
12	Cotton Fibres	Determination of non-Lint content of Cotton - Total Trash (%)	ASTM D2812	220
13	Cotton Fibres	Determination of lint and trash content of cotton	IS 4871	220
14	Fibres	Determination of length and length distribution of staple fibres (Oil Plate Method)	ISO 6989 IS 10014-1 BISFA standard 2007	750
15	Fibres	Measurement of Linear Density of Textile Fibers (Fibre Denier / Tex)	ASTM D1577	500
16	Fibres	Measurement of Linear Density of Textile Fibers (Gravimetric Method) (Fibre Denier / Tex)	IS 234 ISO 1973	500
17	Fibres	Determination of crimp frequency of manufactured staple fibers (No. of Crimps)	ASTM D3937-12	500
18	Fibres	Measurement of Tensile Properties of Single Textile Fibers (Fafegraph)	ASTM D3822-07 IS 235 ISO 5079	1200
19	Non-woven	Determination of Tensile Strength & Elongation at break (Strip Method)	ISO 9073-3	900
20	Yarn	Determination of Single-end Strength & Elongation at break (Constant Rate of Extension (CRE) Tester) (Tensojet / Statimat)	ISO 2062	600
21	Yarn	Determination of Twist in Yarns by Direct Counting Method	ASTM D1423-2 IS 832 ISO 2061	550 per direction
22	Yarn	Determination of Twist in Single Spun Yarns (Untwist-Retwist Method)	ASTM D1422-13 ISO 17202	550 per direction



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23	Yarn	Determination of Unevenness of textile strands (Capacitance Method)	ASTM D1425	550
24	Yarn	Classifying and Counting of Faults in Spun Yarns using Capacitance Testers	ASTM D6197-99	600
25	Yarn	Breaking Strength of Yarn in Skein Form (Lea Strength)	ASTM D1578 ISO 6939	550
26	Yarn	Imperfections/Km (Thin, Thick & Neps), CVM%, Spectrogram	STP/TT/Y/7 Issue no 9 (Uster standard Test Method 1997)	550
27	Yarn	Single Yarn Strength	STP/TT/Y/11- Issue No 00 (Uster Standard Test Method 1999)	1100
28	Yarn	Single Yarn Elongation %	STP/TT/Y/11- Issue No 00 (Uster Standard Test Method 1999)	1100
29	Fibre/ Yarn/ Fabric	Identification of Fibres	IS 667	500
30	Fibre/ Yarn/ Fabric	pH value of aqueous extract	IS 1390 IS/ISO 3071 AATCC 81	350
31	Fibre/ Yarn/ Fabric	Determination of Water-Soluble Matter of Textile Materials	IS 3456	450
32	Fabric	Type of Weave	ISO 3572	300
33	Fabric	Stiffness	IS 6490 / ASTM D 1388 / ASTM D 4032	550
34	Fabric	Cover factor [Cover Factor along with fabric construction and yarn count]		900



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35	Yarn	No. of Ply	visual	150
36	Fabric/ Garment	Stitch per inch	visual	200
37	Fibre	Fibre fineness (Diameter)	BS 3085	450
38	Fibre	Baer sorter	IS 233-1: 1978	700
39	Yarn	Type of Yarn	Visual	200
40	Yarn	Ring spun / Rotor spun yarn identification [type of yarn]	Visual	200
41	Fabric	Length and width of fabric	Visual	400
42	Garment	Length of garment	Visual	250
43	Garment	Width of garment	Visual	250
44	Fabric/ Garment	Weave pattern	Visual	1500
45	Fabric/ Garment	Random Pilling (ARC)	ASTM D 3512	550
46	Fabric	Pile Height	ATIRA inhouse method	550
47	Fabric	GSM Towel	ASTM D 3776 - C	450



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48	Fabric/ Garment	Air permeability of Textile Fabrics	ISO 9237 ASTM D737 IS 11056 EDANA 140.2	650
49	Fabric/ Garment	Determination of Drapability (Drape Coefficient)	ISO 9073-9 IS 8357 EDANA 90.4 99	600
50	Fabric	Water Repellency of Fabrics by Water Spray Test	IS 390 ISO 4920 AATCC 22	300
51	Fibre/ Yarn/ Fabric	Moisture Content/ Regain	IS 199 ISO 6741-1 ASTM D2654	350
52	Fibre/ Yarn/ Fabric	Ash Content	IS 199	550
53	Fibre/ Yarn/ Fabric	Estimation of Fatty Matter, Fats / Waxes	IS 199	550
54	Fibre/ Yarn/ Fabric	Total Size or Finish	IS 199	550
55	Fibre/ Yarn/ Fabric	Identification of Fibres: Qualitative	AATCC 20	500
56	Fibre/ Yarn/ Fabric	Blend Analysis - Binary	IS 1889-4	950
57	Fabric/ Garment	Determination of Tear Strength (Elmendorf)	ISO 13937-1 ASTM D1424- 9 IS 6489-1	650
58	Fabric/ Garment	Determination of maximum force and elongation at maximum force (Strip Tensile Method)	ISO 13934-1 IS 1969-1 ASTM D5035- 11 IS 7016-2	650
59	Fabric/ Garment	Determination of breaking strength & elongation at break in fabrics (Grab Tensile Method)	ISO 13934-2 ASTM D5034 IS 1969-2	650



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60	Fabric/ Garment	Determination of Tear Strength (Double Tear - Tongue Shape)	ISO 13937-4 IS 7016-3 Method A1 ISO 13937-2 ASTM D2261-13 IS 7016-3 Method A2	650
61	Fabric/ Garment	Air permeability of Textile Fabrics	ISO 9237 ASTM D737 IS 11056 ISO 9073-15 EDANA 140.2	650
62	Fabric/ Garment	Bursting strength of Textile Fabrics- Diaphragm Bursting Strength tester method	ASTM D3786	800
63	Fabric/ Garment	Bursting strength and bursting distension of textile fabrics (Hydraulic Method)	ISO 13938-1	800
64	Fabric/ Garment	Crease recovery angle by measuring Angle of recovery	ISO 2313 IS 4681	600
65	Fabric/ Garment	Wrinkle Recovery of Woven Fabrics: Recovery Angle	AATCC 66	600
66	Fabric/ Garment	Count of Yarns	IS 3442 ISO 7211-3 ASTM D3883-04	400
67	Fabric/ Garment	Crimp of Yarns	IS 3442 ISO 7211-3 ASTM D3883-04	500
68	Fabric/ Garment	Determination of thickness of fabric	ASTM D1777	250
69	Fabric	Determination of thread density per unit length	IS 1963	300
70	Fabric	End & Pick Count of Woven Fabrics	ASTM D3775	300



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71	Fabric	Determination of thread density per unit length	BS EN 1049-2	300
72	Fabric	Determination of number of threads per centimetre	ISO 7211-2	300
73	Fabric/ Garment	Determination of weight per square meter and weight per linear meter of fabric	ASTM D3776 Option C IS 1964 ISO 3801(M5)	GSM 250 GLM 400
74	Fabric	Determination of Width of Fabric	ASTM D3774	200
75	Fabric	Determination of Length of Fabric	ASTM D3773	200
76	Fabric	Determination of Length & Width of Fabric	IS 1954	400
77	Fabric/ Garment	Fabric propensity to surface fuzzing and to pilling (Modified Martindale Method)	ISO 12945-2 IS 10971-2	Variable
78	Fabric/ Garment	Pilling Resistance and other related surface changes of textile fabrics (Martindale Tester)	ASTM D4970 M16E3	Variable
79	Fabric	Pilling resistance (ICI Pill box Method)	IS 10971-1 ISO 12945-1	Variable
80	Fabric/ Garment	Resistance to Slippage of Yarns in woven fabrics using Standard Seam	ASTM D434	800
81	Fabric/ Garment	Determination of failure in Sewn Seam and Seam Efficiency of Woven Apparel Fabrics - Seam Strength	ASTM D1683	800
82	Fabric/ Garment	Determination of maximum force to Seam rupture (Strip Method) - Seam Strength	ISO 13935-1 ISO 13935-2	800
83	Fabric/ Garment	Determination of the Slippage resistance of yarns at a seam (Fixed Seam opening Method) - Seam Slippage	ISO 13936-1	800



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84	Fabric/ Garment	Determination of the Slippage resistance of yarns at a seam (Fixed Load Method) - Seam Slippage	ISO 13936-2	800
85	Fabric/ Garment	Tearing Strength of Fabrics by Trapezoid Procedure	ASTM D5587	650
86	Fabric/ Garment	Determination of Tear Force of Wing shaped test specimen (single tear method)	IS 6489-3	650
87	Fabric/ Garment	Determination of the abrasion resistance of fabrics by Martindale method (Martindale abrasion testing apparatus)	ISO 12947-1 ISO 12947-4	Variable
88	Fabric/ Garment	Determination of the abrasion resistance of fabrics by Martindale method (Determination of mass loss)	ISO 12947-3	Variable
89	Fabric/ Garment	Determination of the abrasion resistance of fabrics by Martindale method (Martindale abrasion testing apparatus)	ASTM D4966	Variable
90	Fabric/ Garment	Determination of resistance of textile fabrics to plane abrasion (flat abrasion)	IS 12673	Variable
91	Fabric/ Garment	Determination of Count of Yarn removed from fabric	IS 3442	450
92	Fabric/ Garment	Determination of linear density of yarn removed from fabric	ISO 7211-5	450
93	Fabric	Determination of Length of Fabric	ASTM D3773	150
94	Fabric	Measurement of Wale and Course Counts of Weft Knitted Fabrics	ASTM D8007-15	250
95	Fabric/ Garment	Determination of Water Absorbency	AATCC 79	500



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96	Fabric/ Garment	Determination of Wettability of Cotton Fabrics	IS 2349	500
97	Fabric/ Garment	Dimensional Stability after exposure to Dry Heat	IS 12170	450
98	Fabric/ Garment	Determination of Drapability (Drape Coefficient)	ISO 9073-9 IS 8357 EDANA 90.4 99	600
99	Fabric/ Garment	Oil Repellency (Hydrocarbon Resistance Test)	AATCC 118 ISO 14419	1000
100	Fabric/ Garment	Determination of Skew, Bow & Spirality	ASTM D3882-08	500
101	Fabric/ Garment	Determination of Skew Change in Fabrics After Home Laundering	AATCC 179	500
102	Fabric/ Garment	Determination of Spirality after Laundering	ISO 16322-2 ISO 16322-3	500
103	Fabric/ Garment	Determination of tear force of wing-shaped test specimens (Single tear method)	ISO 13937-3	650
104	Fabrics (Woven & Non-woven)	Determination of Pore Size Characteristics (Capillary Flow Test)	ASTM D6767	1400
105	Fabric	Water Repellency of Fabrics by Water Spray Test	IS 390 ISO 4920 AATCC 22	300
106	Fabric	Colour Fastness to Laundering – Home and Commercial (Accelerated)	AATCC (1A-5A)	300
107	Fabric	Colour Fastness to Rubbing	IS 766 ISO 105 X12 AATCC 8	300
108	Fabric	Dimensional changes of fabric after Home Laundering	AATCC 135	250



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109	Fabric	Domestic washing and drying procedures for textile testing	ISO 5077 ISO 6330	350
110	Fabric	Dimensional Changes on Washing of Fabrics	IS 1299	250
111	Fabric	Dimensional changes on Soaking in Water	IS 2977	350
112	Fabric	Dimensional changes on Soaking in Water	ISO 7771 AATCC 99	350
113	Fabric	Dimensional changes on Dry Cleaning	ISO 3759 ISO 3175-2 AATCC 158	350
114	Fabric	Scouring Loss	IS 1383	650
115	Fibre/ Yarn/ Fabric	Colour Fastness to Artificial Light: Xenon Arc fading lamp test	ISO 105 B02 IS 2454	BWS 4 : 1100 BWS 5 : 1650
116	Fibre/ Yarn/ Fabric	Colour fastness to domestic and commercial laundering using a non-phosphate reference detergent incorporating a low temperature bleach activator	ISO 105 C06 C08 C09 IS 13025	300
117	Fibre/ Yarn/ Fabric	Colour fastness to Dry Cleaning	ISO 105 D01 IS 4802 AATCC 132	450
118	Fibre/ Yarn/ Fabric	Colour fastness to Hot Pressing	ISO 105 X11 IS 689	450
119	Fibre/ Yarn/ Fabric	Colour fastness to Hot Pressing	AATCC 133	450
120	Fibre/ Yarn/ Fabric	Colour fastness to Perspiration	ISO 105 E04 AATCC 15 IS 971	500



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121	Fibre/ Yarn/ Fabric	Colour fastness to Washing with Soap & Soda	IS/ISO 105 C10	400
122	Fibre/ Yarn/ Fabric	Colour fastness to Water	ISO 105 E01 IS 767 AATCC 107	350
123	Fibre/ Yarn/ Fabric	Colour fastness to dry heat	IS 689	450
124	Fibre/ Yarn/ Fabric	Colour fastness to sea water	AATCC 106	350
125	Fibre/ Yarn/ Fabric	Colour fastness to chlorine bleach / hypochlorite	AATCC 188	350
126	Fibre/ Yarn/ Fabric	Colour fastness to non-chlorine bleach	AATCC 61 - 5A	550
127	Fibre/ Yarn/ Fabric	Colour fastness to sublimation	IS 975: 1988	800