



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PLANET ANALYSIS PRIVATE LIMITED, 141-B, CO-OPERATIVE INDUSTRIAL ESTATE, UDYOG NAGAR, DADA NAGAR, KANPUR, UTTAR PRADESH , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5434 Page No. : 1 / 42

Validity 28/01/2019 to 27/01/2021 Last Amended on 20/03/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Bond organic substance and degree of tannage	IS 582 (LC-21) : 1970, Reaffirm: 2014	(0.5 % to 50)%, (0.5 to 80)
2	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Chrome VI	IS 15298 (Part-1) : 2015, ISO:20344 : 2011, ISO:17075: 2017	3.0 mg/kg to 100 mg/kg
3	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Chromium Oxide content	IS 582 (LC-10) : 1970 Reaffirm : 2003, IS 13319 : 1992 Reaffirm: 2014	0.5 % to 10 %
4	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Identification of Leather	PAPL/TM-01 : 2014 & PAPL/TM-02: 2014	Qualitative
5	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Nitrogen and Hide substance	IS 582 (LC-5) : 1970, Reaffirm: 2014	01 % to 80 %
6	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	pH & Difference Figure	IS 582 (LC-18) : 1970, Reaffirm : 2014, ISO 4045 :2018, IS 15298 (Part-1) : 2015, ISO 3071: 2009	1.0 to 10



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7	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Presence of Formaldehyde	IS 5677 (LC-13) : 1986, Reaffirm : 2014	Qualitative
8	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Solvent Extractable Substance	IS 582 (LC-4) : 1970, Reaffirm: 2014	0.5 % to 20 %
9	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Sulphated Ash of water soluble matter	IS 582 (LC-7) : 1970, Reaffirm: 2014	0.1 % to 20 %
10	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Total Ash	IS 582 (LC-3) : 1970, Reaffirm: 2014	1 % to 20 %
11	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Volatile Matter	IS 582 (LC-1) : 1970, Reaffirm : 2014	1 % to 50 %
12	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Water Soluble Ash	IS 582 (LC-8), : 1970, Reaffirm: 2014	0.1 % to 30 %



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13	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Water Soluble Matter	IS 582 (LC-6) : 1970, Reaffirm: 2014	0.1 % to 50 %
14	CHEMICAL- LEATHER	Leather Products, Finished Leather, Leather Accessories, Semi-finished Leather, Synthetic Leather	Water soluble organic substance	IS 582 (LC-9) : 1970, Reaffirm: 2014	0.1 % to 30 %
15	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Resistance to liquid	IS 3400 (Pt-6) : 2012, Reaffirm : 2017, ISO 1817 : 2015, IS 15298 (Pt-1) : 2015, SATRA TM 63: 2000	0.10 % to 90 %
16	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Acetone Extract	IS 6110 Appendix-C :1983, Reaffirm :: 2017	0.1 % to 25 %



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17	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Alcoholic Potash Extract	IS 3400(Pt-22):1984, Reaffirm 2003, IS 6110:1983 Appendix-A, Reaffirm : 2017, IS 5915: 1970 Appendix-A Reaffirm: 2017	0.1 % to 5.0 %
18	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Carbon black	IS 3400(Pt-22) : 1984 Reaffirm : 2003	0.5 % to 60.0 %
19	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Nitrogen	IS 3400(Pt-22):1984 Reaffirm 2003, IS 6110:1983 Appendix-A, Reaffirm : 2017, IS 5915: 1970 Appendix-A Reaffirm: 2017	0.1 % to 20.0 %
20	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Organic Sulfur	IS 3400(Pt-22):1984 Reaffirm 2003, IS 6110:1983 Appendix-A, Reaffirm 2017, IS 5915: 1970 Appendix-A Reaffirm : 2017	0.1 % to 20.0 %



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21	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Polymer content, (Indirect method)	IS 3400 (Pt-22) : 1984 Reaffirm 2003, IS 6110 : 1983 Appendix-A, Reaffirm 2017, IS 5915 : 1970 appendix-A Reaffirm :: 2017	10 % to 95 %
22	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Proofing content	IS 6110:1983 Appendix-D Reaffirm 2017, IS 5915: 1970 Appendix-C Reaffirm: 2017	1 % to 500 %
23	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Reaction to aqueous extract (Acid & Alkali)	IS 1390 : 1983 Reaffirm 2017, IS 6110 :1983, Reaffirm : 2017	Qualitative
24	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Relative Density	IS 3400 (Part-9) : 2014, IS 15298 (Partt-1) : 2015, ISO 20344 : 2011, SATRA TM : 134, IS 12240 (Partt-3) :1988 Reaffirm : 2018	0.1 g/cm ³ to 5.0 g/cm ³



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25	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Resistance to Acid & Alkali	IS 5915 : 1970, Clause 4.3.10, Reaffirm : 2017	Qualitative
26	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Resistance to Xylol	IS 6110:1983 Appendix-D Reaffirm : 2017, IS 5915: 1970 Appendix-C Reaffirm: 2017	Qualitative
27	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Rubber Hydro Carbon	IS 3400(Pt-22):1984 Reaffirm 2003, IS 6110:1983 Appendix-A Reaffirm 2017, IS 5915: 1970 Appendix-A Reaffirm : 2017	0.5 % to 95.0 %
28	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Total ash	IS 3400(Pt-22):1984 Reaffirm 2003, IS 6110:1983 Appendix-A Reaffirm 2017, IS 5915: 1970 Appendix-A Reaffirm : 2017	0.5 % to 80 %



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29	CHEMICAL- RUBBER & RUBBER PRODUCTS	Latex goods, Natural/Synthetic latex, Latex rubber, Rubber compound, Rubber products, Rubber vulcanize, Synthetic rubber, Textile rubber composite	Total Extract	IS 3400(Pt-22):1984 Reaffirm 2003, IS 6110:1983 Appendix-A Reaffirm 2017, IS 5915: 1970 Appendix-A Reaffirm : 2017	0.5 % to 60 %
30	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Water Absorption and Penetration of Fabrics using Bundesmann type Apparatus	IS 392 : 1989 Reaffirm: 2016	5 % to 100 %
31	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Absorbency of Absorbent Textile Material	IS 2369 : 1967, Method 1 Reaffirm: 2016	1 s to 60 s



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32	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Aluminium Oxide (as Al ₂ O ₃)	IS 2089 (Appendix A-5) : 1977 Reaffirm :: 2017	0.1 % to 5 %
33	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Ash content	IS 199 : 1989 Reaffirm 2009, IS 2089 (Appendix A-4): 2016	0.1 % to 25 %
34	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Blocking Resistance	IS 7016 (Part-9) : 1982: 2013	Qualitative



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35	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Colour difference (delta E)	AATCC TM 173:2009 Reaffirmed: 2015	0.1 to 20 DEcmc
36	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Colour Fastness to Bleaching (Sodium Hypo Chlorite)	IS 762:1988 Reaffirm 2017, ISO 105-NO1: 1993	Qualitative(Grade 1 to 5)
37	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Colour Fastness to Dry Cleaning	IS 4802 : 1988, Reaffirm : 2016	Qualitative(Grade 1 to 5)



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38	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Colour fastness to light	IS 686 : 1985, Reaffirm 2016, IS 8543(Part-13/Sec 1) : 1977 SI. No. 10, Reaffirm 2015, IS 3322(Part-1) : 1987 Reaffirm : 2017	Qualitative(Rating 1 to 8)
39	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Colour fastness to organic solvent	IS 688 : 1988, Reaffirm 2017, IS 8543 (Part-13/Sec-1): 1977 SI. No. 8) Reaffirm:: 2015	Qualitative(Grade 1 to 5)
40	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Colour Fastness to Perspiration	IS 971:1983 Reaffirm: 2013	Qualitative(Grade 1 to 5)



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41	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Colour Fastness to Rubbing	IS 766:1988 Reaffirm 2017: 2016	Qualitative(Grade 1 to 5)
42	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Colour Fastness to Sea water	IS 690 : 1988, Reaffirm : 2017	Qualitative(Grade 1 to 5)
43	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Colour Fastness to Washing, Test-I, II,III, IV & V	IS 8543 (Part-13/Sec-1):1977 Reaffirm 2015 Sl. No. 6, IS/ISO 105-C-10 : 2006	Qualitative(Grade 1 to 5)



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44	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Copper content	IS 2089 (Appendix A-2) 1977 Reaffirm: 2017	0.1 % to 5 %
45	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Curing Test	S 8543 (Part-13) 1977 (Sec-1, Sl. No. 5) Reaffirm:: 2015	Qualitative
46	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Dimension change of woven fabric	IS 665:1989 Reaffirm 2005, IS 2977:1989 Reaffirm 2005, IS 1259:1984 Appendix - F, JSS-8305-05-2000 Appendix-A , IS 9:1982, IS 3329:1973 A-6, IS 10099: 1982	Range of testing -20% to +20%



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47	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Ether soluble matter in textile materials	IS 4390 : 2001, Reaffirm: 2017	0.1 % to 20 %
48	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Evaluation of water repellency (Cone Test)	IS 2089:1977 Reaffirm 2017 CI 6.3, IS 6803: 1972 Reaffirm 2017 Sl. No. 3.2.6.3, IS 7941:1976 Reaffirm : 2016	Qualitative
49	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Free Acidity	IS 2089 (Appendix A-3) 1977 Reaffirm : 2017	Qualitative



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50	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Identification of fibre	IS 667 : 1981, Reaffirm : 2017	Qualitative
51	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Iron in textile materials	IS 4655 : 1968, Reaffirm: 2016	0.1 % to 10 %
52	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Moisture Content	IS 199:1989 Reaffirm: 2016	0.5 % to 50 %



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53	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	pH of aqueous extracts	IS 1390:1983 Reaffirm 2017, SATRA TM 349 : 1996	1 to 14
54	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Pliability Test	IS 6803 : 1972 (Clause 3.2.4) Reaffirm 2017, IS 2089 (Clause 3.3.4) : 1977 Reaffirm: 2017	Qualitative
55	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Proofing content	IS 6803 : 1972 Appendix A-1 Reaffirm 2017, IS 2089 : 1977 Appendix A-1 Reaffirm 2017, JSS 8305-05 Appendix -B: 2000	0.5 % to 75 %



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56	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Quantitative analysis of blend Cotton + Viscose,Wool and Others,Polyester + Cotton,Polyester + Viscose,Wool content,Nylon content,	IS 1889 (Part-1):1976 Reaffirm 2016, IS 2006:1988 Reaffirm 2017, IS 3416 (Part-1):1988 Reaffirm 2013, IS 8476:1977 Reaffirm 2016, IS 2005:1988 Reaffirm: 2017	Range of Testing: 1 to 100%
57	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Residual starch in cotton fabric after desizing	IS 1967 : 1961 Reaffirm: 2016	0 % to 10 %
58	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Resistance to accelerated ageing at 70 degree centigrade in oven	IS 7016 (Part-VIII) 1975 (Oven method) Reaffirm: 2017	Qualitative



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59	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Scouring Loss, Percent	IS 1383:1977 Method-B (mild method) Reaffirm 2017, IS 11219:1984 Reaffirm 2016, IS 894:1980 Appendix-A-2 Reaffirm 2013, IS 892:1980 Appendix A-2 Reaffirm 2013, IS 896:1991 Annexure-C Reaffirm 2016, IS 2360:1977 A-6 Reaffirm 2013, IS 1582: 2017	0.5 % to 15 %
60	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Shrinkage when heated	IS 11248 : 1995 Appendix -C, IS 11815 : 1986 Appendix -B, IS 12170 : 1997 Reaffirm 2016, IS 15844 (Appendix-F) 2010 Reaffirm: 2016	-20 % to 20 %
61	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Sweating Test	IS 2089 (Clause 6.2) 1977 Reaffirm: 2017	Qualitative



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62	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Water Soluble Matter	IS 3456:1966 Reaffirm: 2016	0.5 % to 40 %
63	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Water Spray Test	IS 390:1975 Reaffirm : 2017	Qualitative
64	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Wettability of cotton fabrics	IS 2349:1963, Reaffirm: 2016	1 s to 25 s



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65	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Whiteness of Textiles (Viewing under ultraviolet light)	AATCC TM 110: 2005, Clause 7.1	Qualitative
66	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Zinc content	IS 2089 (Appendix A-2.2) 1977 Reaffirm: 2017	0.1 % to 5 %
67	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Barium activity number of cotton textile material	IS 1689 : 1973 Reaffirm :: 2017	100 to 165



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68	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Packing textiles, Technical Textile, Jute Yarn & Chords	Oil content in Jute yarn and fabrics	IS 2969 : 1974, Reaffirm : 2016, IS 9113: 2012	0.1 % to 30 %
69	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Carpet & Rugs, Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Madeups, Medical Textile, Packing textiles, Technical Textile, TerryTowel & Products, Yarn& Chords	Colour Fastness to Water	IS 767:1988, Reaffirm: 2013	Qualitative((Grade 1 to 5))
70	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Domestic Textile, Finished Fabric, Garments & Apparels, Grey Fabrics, Made-ups, Medical Textile, Packing textiles, Technical Textile, Terry Towel & Products, Yarn & Chords	Chromium in textile materials	IS 4655 : 1968, Reaffirm: 2016	0 % to 10 %
71	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Made- ups, Kapok	Buoyancy ratio after soaking	IS 3040 (Appendix A.3) 1980 Reaffirm: 2014	10 to 40
72	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Made-ups, Kapok	Buoyancy ratio before soaking	IS 3040 (Appendix A.2) 1980 Reaffirm: 2014	10 to 40



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73	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Made-ups, Kapok	Permissible Impurities	IS 3040 (Appendix A-4) 1980 Reaffirm: 2014	0.5 % to 50 %
74	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Abrasion Resistance	IS 3840 (Annexure-B) 2011 Reaffirm : 2017	Qualitative
75	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Absorption of water gravimetric method	IS-5914(LP:11):1970 Reaffirm : 2014	5 % to 100 %
76	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Apparent Density	IS 5914 (LP:5) : 1970 Reaffirm : 2014	0.1 g/cm ³ to 2.0 g/cm ³
77	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Colour fastness to crocking (Dry & Wet)	IS-6191(LF:9 & 10):1971 Reaffirm: 2014	Qualitative
78	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Double Hole Stitch	IS-5914(LP:8):1970 Reaffirm: 2014	25 N/mm to 1100 N/mm



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79	MECHANICAL-LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Flexing Endurance	IS-5914(LP:19):1970 Reaffirm 2014, IS-15298(Part-1): 2015 (Clause 6.5), ISO-20344:2011(Claue 6.5), ISO-8782-1 : 1998	Qualitative
80	MECHANICAL-LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Heat Resistance	IS 5677:1986 (Appendix-A) Reaffirm : 2014	Qualitative
81	MECHANICAL-LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Spray test for estimating water repellent	IS 5914(LP: 26) 1970 Reaffirm: 2014	Qualitative
82	MECHANICAL-LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Tear Strength	IS-5914(LP:7):1970 Reaffirm 2014, IS-15298(Part-1): 2015 (Clause 6.3), ISO-20344:2011(Claue 6.3), SATRA TM162-1992, ISO-8782-1 :: 1998	25 N/mm to 1100 N/mm
83	MECHANICAL-LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Tensile Strength & Elongation at break percent & Modulus Elongation	IS-5914(LP:6):1970 Reaffirm 2014, IS-15298(Part-1): 2015 (Clause 6.4), ISO-20344:2011(Claue 6.4), SATRA TM43-2000, ISO-8782-1: 1998	5 N/mm ² to 110 N/mm ² , 1 % to 100 %



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84	MECHANICAL-LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Thickness	IS 5914(LP:1):1970 Reaffirm 2014, IS 15298(Part-1): 2015 (Clause 6.1, 6.2, 7.1, 8.1), ISO 20344 : 2011 (Clause 6.1), ISO 8782-1: 1998	0.5 mm to 9.5 mm
85	MECHANICAL-LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Tongue Tear Strength	IS-5914(LP:9):1970 Reaffirm 2014, SATRA TM30: 1995	25 N/mm to 1100 N/mm
86	MECHANICAL-LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Water Penetration and water absorption	IS-5914(LP:20):1970 Reaffirm 2014, IS-15298(Part-1): 2015 (Clause 6.7, 6.13), ISO-20344:2011(Claue 6.7, 6.13), ISO-8782-1 : 1998	Penetration Time up to 180 minute, Water absorption up to 50%
87	MECHANICAL-LEATHER AND LEATHER PRODUCTS	Finished Leather, Footwear's, Industrial Products, Leather Products, Semi-Finished Leather	Water vapour permeability & water vapour coefficient	IS-5914(LP:21):1970 Reaffirm 2014, IS-15298(Part-1): 2015 (Clause 6.6, 6.7, 6.8), ISO-20344:2011(Claue 6.6), ISO-8782-1: 1998	1 to 150 mg/(cm ² .h), 10 to 1000 mg/cm ²
88	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Hardness (Shore-A)	IS-3400(Part-23): 2003, ISO-48 : 1994	10 Shore-A to 90 Shore-A



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89	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products	Corners & Edges	IS 9873(Part-4) (Clause-4.1.3) : 2017	Qualitative
90	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products	Protruding Parts	IS 9873(Part-4) (Clause-6.7.1): 2017	Qualitative
91	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products	Shape, Size & Strength	IS 9873(Part-1) (Clause -5.3, 5.4, 5.5 & 5.6): 2012	Qualitative
92	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products	Small parts	IS 9873(Part-1)(Clause 5.24) : 2012	Qualitative
93	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Abrasion Resistance, mm3 and Abrasion Index	IS-3400 (Part-3): 1987 Reaffirm 1998, ISO-4649:2010, IS 15298 (Part-1): 2015, ISO-20344: 2011, SATRA TM-174: 1994	10 mm ³ to 900 mm ³
94	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Accelerating Ageing (Oven method)	IS-3400(Part-4): 1987 Reaffirm : 2003	Qualitative



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95	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Adhesion of rubber to textile fabric, N	IS-3400(Part-5): 1985	0.98 N to 2200 N
96	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Cleated Area, mm	S 15298(Part-1,2,3&4): 2015, ISO-20344: 2011, ISO-20345: 2011, ISO-20346: 2014, ISO-20347 : 2012	10 mm to 500 mm
97	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Cleated Height, mm	IS 15298(Part-1,2,3&4): 2015, ISO-20344: 2011, ISO-20345: 2011, ISO-20346: 2014, ISO-20347: 2012	0.1 mm to 15 mm
98	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Compression Resistance	IS 15298(Part-1): 2015, ISO-20344: 2011	5 mm to 40 mm
99	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Compression Set at constant strain, %	IS-3400(Part-10): 1977 Reaffirm : 1993, IS 15844 (Annexure-C) : 2010	1 % to 80 %



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100	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Construction	IS 15298(Part-1,2,3&4): 2015, ISO-20344: 2011, ISO-20345: 2011, ISO-20346: 2014, ISO-20347 : 2012, BSEN 15090: 2012	Qualitative
101	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Corrossion resistance of Toe cap	IS 15298(Part-1): 2015, ISO-20344: 2011	0.1 mm to 20 mm
102	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Dimensional Conformity, mm	IS 15298(Part-1): 2015, ISO-20344: 2011	0.1 mm to 500 mm
103	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Electrical Insulation	ISO-20344: 2011, EN-50321: 2011	Qualitative
104	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Electrical resistance anti static test/Electrostatic discharge	IS 15298(Part-1): 2015, ISO-20344: 2011	1 kOhm to 2000 MOhm



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105	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Flex Resistance of penetration resistance insert	IS 15298(Part-1): 2015, ISO-20344: 2011	Qualitative
106	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Flexing Resistance , mm (Bennewart Flexing)	IS 15298(Part-1): 2015, ISO-20344: 2011	0.1 mm to 120 mm
107	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Height of upper, mm	IS 15298(Part-1): 2015	0.1 mm to 300 mm
108	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Hydrolysis (Development of crack)	IS 15298(Part-1): 2015, ISO-5423: 1992(Annexure-C) , ISO-20344: 2011	0 mm to 25 mm
109	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Impact resistance of Toe cap	IS 15298(Part-1): 2015, IS-11226: 1993(Annexure-D), ISO-20344: 2011	5 mm to 40 mm



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110	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Insulated against heat	IS 15298(Part-1,2,3&4): 2015, ISO-20344: 2011, ISO-20345: 2011, ISO-20346: 2014, ISO-20347: 2012	Qualitative
111	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Internal Toe Cap Length, mm	IS 15298(Part-1,2,3&4): 2015, ISO-20344: 2011	20 mm to 70 mm
112	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Nail Penetration test, N	IS 15298(Part-1): 2015, ISO-20344: 2011	100 N to 1900 N
113	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Resistance to crack growth, mm	IS-3400(Part-8): 1983 Reaffirm 2001, IS-12240(Part-7):1988, IS-3400(Part-16): 1974 Reaffirm : 2001	0.1 mm to 25 mm
114	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Resistance to Flex crack	IS-3400(Part-7): 1985 Reaffirm 2001, IS-12240(Part-7):1988, IS-3400(Part-11): 1974 Reaffirm : 2001	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
115	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Seat Region	IS 15298(Part-1,2,3&4): 2015, ISO-20344: 2011, ISO-20345: 2011, ISO-20346: 2014, ISO-20347 : 2012, BSEN 15090: 2012	Qualitative
116	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Shoe Flexing	G/Tex/Misc/55/Boot Rubber : 2003 (Appendix-B), IS 15298(Part-1): 2015, ISO-20344: 2011	Qualitative
117	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Specific ergonomic feature	IS 15298(Part-1,2,3&4): 2015, ISO-20344: 2011, ISO-20345: 2011, ISO-20346: 2014, ISO-20347 : 2012, BSEN 15090: 2012	Qualitative
118	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Tear Strength	IS-3400(Part-12): 1971 Reaffirm 2003, IS 15298(Part-1): 2015, IS 15844: 2010 (Annexure-G), ISO-20344: 2011	2 kN/m to 20 kN/m
119	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Tensile Strength and Elongation at Break	IS-3400(Part-1): 1987 Reaffirm 2003, IS-12240(Part-6): 1988	50 kg/cm ² to 10000 kg/cm ² & 50 kPa to 100000 kPa, 100 % to 900 %



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120	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Thickness cleated/Non cleated out sole, mm	IS 15298(Part-1,2,3&4): 2015, ISO-20344: 2011, ISO-20345: 2011, ISO-20346: 2014, ISO-20347 : 2012	0.1 mm to 50 mm
121	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Thickness, mm	IS-3400(Part-1): 1987 Reaffirm:2003, IS 15298(Part-1): 2015, ISO-20344: 2011	0.5 mm to 20 mm
122	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Toe Protection General	IS 15298(Part-1,2,3&4): 2015, ISO-20344: 2011, ISO-20345: 2011, ISO-20346: 2014, ISO-20347 : 2012, BSEN 15090: 2012	Qualitative
123	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Upper out sole & Inter layer bond strength, N/mm	IS 15298(Part-1): 2015, ISO-20344: 2011, SATRA TM-411: 1992	1 to 20 N/mm , 1 to 50 N/mm
124	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Water proofness test	IS 6110: 1983 (Appendix-E) Reaffirm 1995, IS-5915 : 1970 Reaffirm : 1996	Qualitative



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125	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Gasket, Seals & Packings, Industrial Belt, Natural Rubber & Products, Synthetic Rubber & Products, Tyres	Water Resistance	IS 15298(Part-1): 2015, ISO-20344: 2011	Qualitative
126	MECHANICAL- TEXTILE MATERIALS	Textile Accessories	Slider Finish	IS 14181(Part-1) (Clause-7.2): 2002	Qualitative
127	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Abrasion resistance of textile fabrics	IS 12673 : 1989 Reaffirm 2010 , ISO-20344 : 2011 Section 6.12, IS 15298(Pt-1) : 2015	Qualitative



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128	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Breaking Strength & Elongation (Reveled strip & Cut strip method) WarpWeft	IS 1969 : 1985 Reaffirm 2010, IS 7016(Pt-II) : 1981 Reaffirm 2013, IS 1670: 1991 Reaffirm 2017, IS: 9113 : 2012, IS 9030: 1979 Reaffirm 2014, IS 13360(Part 5/sec-3)1999 Reaffirm 2013, ISO:527-3-: 2018	50 N to 2200 N, 2 to 50 %
129	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Breaking Strength of Seam	IS 9030 :1979 Reaffirm 2014, IS 9113: 2012	50 N to 2200 N



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130	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Bursting Strength	IS 1060 (Pt-1) : 1966 Reaffirm 2014, IS 1966 : 1976 Reaffirm 2011, IS 7016(Pt-6) 1984 Reaffirm : 2013	3.0 kg/cm ² to 32.0 kg/cm ²
131	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Count of Yarn (Warp & Weft)	IS 3442 : 1980 Reaffirm 2014, IS 681: 2015	1 S to 100 S , 1 Tex to 1000 Tex



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132	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Crease recovery by measuring angle of recovery	ISO 2313 : 1972 Reaffirm 2017, BS 3086 : 1972, IS 4681 : 1981 Reaffirm : 2014	0 to 320 °
133	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Determination of pile height	IND/TC/0102 : 1997 (Appendix-G), Prov/S/5387/Sliver/GA R/TC-19 : 1998 (Appendix-F), IS 7877 (Part-4) 1976: 2017	1 mm to 25 mm



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134	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Drape coefficient	IS 8357 -1977 Reaffirm: 2014	10 % to 100 %
135	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Length and width of the fabric	IS 1954 : 1990 Reaffirm 2017, IS 4605 : 1981 Appendix-A Reaffirm 2012, IS 9113 : 2012, IS 758 : 1988 Appendix-A Reaffirm 2017, IS 5405 1986 Reaffirm : 2012	1 cm to 175 cm & 10 mm to 1750 mm



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136	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Pilling Resistance	IS 10971 : 1984 Reaffirm 2006, ISO 12945(Part-1) : 2000	Qualitative(Grade 1 to 5)
137	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Tear Strength, N	IS 6489(Part-4) :2011, ISO 13937-2011, ISO 13937-4-2000, IS 6489 (Part-3) : 2011	50 N to 2200 N



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138	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Terry ratio of toweling fabrics	IS 7056: 1989 Reaffirm : 2001	Qualitative(1 : 1 to 10 : 1)
139	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Thickness of woven & knitted fabric, mm	IS 7702 : 1975 Reaffirm 2011, ASTM D 5729-97, IS 5404: 1980, IS 6193: 1971	0.2 mm to 15.0 mm



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140	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Threads per unit length in woven fabric	IS 758 : 1988 Appendix-A, IS 4605: 1981 Appendix-B, IS 14887 : 2003 Reaffirm 2006, IS 1963 : 1981 Reaff 2004, IS 9113 : 2012	20 /dm to 500 /dm
141	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Water absorption, % and water desorption, %	IS 15298(Part-1)2015, ISO-20344 : 2007	5 % to 250 %



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142	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Water vapour permeability & Coefficient of cambrill & Non woven fabric	IS 15298(Part-1) 2015, ISO 20344: 2007	1 to 1000 mg/cm ² .h and 10 to 1000 mg/cm ²
143	MECHANICAL- TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Weave	PAPL/LAB/TM-02: 2015	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
144	MECHANICAL-TEXTILE MATERIALS	Carpet & Textile, Coated Fabric, Fabric(Woven & Non woven), Fibre Ropes & Cords, Garments & Apparel, Hand-loom Textiles, Industrial Textiles, Jute & Its products, Khadi Textiles, Medical Textiles, Packing Textiles, Technical Textiles	Weight per unit area	IS 1964: 2007 Reaffirm 2006(Method-A) , IS 7016(Pt-I) : 1982, PAPL/LAB/TM-01: 2012, IS 15891(Pt-1) : 2011, ISO-9073-1: 1989, ASTM D-3776M-09a, IS 4605 : 1991 Appendix-C, IS 9113 : 2012	1.0 g/m ² to 1500 g/m ²
145	MECHANICAL-TEXTILE MATERIALS	Coated Fabric	Abrasion resistance of Non woven fabric	ISO 20344: 2007 (Section 7.3), IS 15298(Part-1):2015, IS 12673: 1989 Reaffirm : 2010	Qualitative
146	MECHANICAL-TEXTILE MATERIALS	Coated Fabric	Colour fastness to rubbing	IS 3322(Part-1): 1987 (Appendix-C) Reaffirm : 2012	Qualitative
147	MECHANICAL-TEXTILE MATERIALS	Coated Fabric	Resistance to damage by flexing	IS 7016(Part-4) : 1987	Qualitative
148	MECHANICAL-TEXTILE MATERIALS	Coated Fabric	Tear Strength, N	IS 7016 (Part-3) : 1981, IS 6489(Part-4), ISO 13937-2011, ISO 13937-4-2000, IS 6489 (Part 3) 2011.: 2011	50 N to 2200 N
149	MECHANICAL-TEXTILE MATERIALS	Coated Fabric, Fabric(Woven & Non woven), Khadi Textiles, Medical Textiles	Stretch Ability	IS 4605 (Appendix -D): 1981	1 cm to 300 cm



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150	MECHANICAL-TEXTILE MATERIALS	Coated Fabric, Fabric(Woven & Non woven), Technical Textiles	Recovery	IS 4605(Appendix-D) : 1981	1 cm to 200 cm
151	MECHANICAL-TEXTILE MATERIALS	Fabric (Woven & Non woven)	No. of holes on Base & Bias with in 6.25 cm ² , No. of holes/cm ²	IS 1431: 1973 (Appendix-E), IS 10054 : 1996 Reaffirm : 2001	2 to 50
152	MECHANICAL-TEXTILE MATERIALS	Textile Accessories	Colour of slide fastner/ textile chain	IS 14181(Part-1) (Clause-7.4): 2002	Qualitative
153	MECHANICAL-TEXTILE MATERIALS	Textile Accessories	Cross wise strength of textile chain	IS 14181 (Part-1,2&3) (Annexure-B): 2002	50 N to 2200 N
154	MECHANICAL-TEXTILE MATERIALS	Textile Accessories	Designation	IS 14181(Part-1) (Clause-6): 2002	Qualitative
155	MECHANICAL-TEXTILE MATERIALS	Textile Accessories	Fold over security of textile chain	IS 14181 (Part-2) (Annexure-C): 2002	50 N to 2200 N
156	MECHANICAL-TEXTILE MATERIALS	Textile Accessories	Lace Length, cm	IS 14181(Part-1) (Clause-8.2): 2002	5 cm to 100 cm
157	MECHANICAL-TEXTILE MATERIALS	Textile Accessories	Lace width, mm	IS 14181(Part-1) (Clause-6.1): 2002	0.1 mm to 15 mm
158	MECHANICAL-TEXTILE MATERIALS	Textile Accessories	Puller length, mm	IS 14181(Part-1) (Clause-8.1): 2002	0.5 mm to 100 mm
159	MECHANICAL-TEXTILE MATERIALS	Textile Accessories	Security of attachment of bottom stop	IS 14181(Part-2) (Annexure-E): 2002	50 N to 2200 N
160	MECHANICAL-TEXTILE MATERIALS	Textile Accessories	Security of attachment of retainer to lateral load, N	IS 14181(Part-2) (Annexure-G): 2002	50 N to 2200 N
161	MECHANICAL-TEXTILE MATERIALS	Textile Accessories	Security of attachment of top stop	IS 14181(Part-2) (Annexure-D): 2002	50 N to 2200 N



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162	MECHANICAL- TEXTILE MATERIALS	Textile Accessories	Slider locking type	IS 14181 (Part-1) (Clause 4.1.7.4.1): 2002	Qualitative
163	MECHANICAL- TEXTILE MATERIALS	Textile Accessories	Tape Extension, mm	IS 14181(Part-1) (Clause-8.1): 2002	0.5 mm to 100 mm
164	MECHANICAL- TEXTILE MATERIALS	Textile Accessories	Tape width, mm	IS 14181(Part-1) (Clause-6.1): 2002	1 mm to 50 mm
165	MECHANICAL- TEXTILE MATERIALS	Textile Accessories	Textile Chain Thickness, mm	IS 14181(Part-1) (Clause-8.1): 2002	0.2 mm to 15 mm
166	MECHANICAL- TEXTILE MATERIALS	Textile Accessories	Textile chain width, mm	IS 14181(Part-1) (Clause-8.1): 2002	0.5 mm to 50 mm
167	MECHANICAL- TEXTILE MATERIALS	Textile Accessories, Hook & loop	Sheer Strength	IS 8156 (Annexure-E): 1994	1 g/cm ² to 1200 g/cm ²
168	MECHANICAL- TEXTILE MATERIALS	Textile Accessories, Plastic Button	Load Test	IS 8543(Part-13/Sec-1, Sl. No. 9) : 1977	Qualitative
169	MECHANICAL- TEXTILE MATERIALS	Woolen garments and woven	No. of wales & course	IS 833:1977 A-5 Reaffirm 2016, IS 9469 :2003 Reaffirm 2013, IS 3329: 1973 Reaffirm : 2016	5 /dm to 500 /dm