

TEST FACILITIES OF DGQA LABS: CQA(T&C), KANPUR//STORES DTE

Name of the Estt. with address, Name of Nodal officer and contact No	S. No	Test Facilities available	Range of Eqpt
Controllerate of Quality Assurance (Textile & Clothing) DGQA Complex, Ashok Path, Cantt, Kanpur 1. Shri P. DE, SSO I, DC Labs Mob- 08765730630 Email-cqatc-dgqa@nic.in (In case of Sr 1 is not available) 2. Col Virender Kumar, JC 0512-2324410	TEXTILE MECHANICAL		
	1.	Determination of mass per unit length and mass per unit area of fabrics	10 to 500gm
	2.	Determination of threads per unit length in woven fabrics	2 to 50 per cm
	3.	Determination of breaking strength and elongation of woven textile fabrics	40 N to 8,000 N
	4.	Determination of dimensional changes of woven fabrics (other than wool) on soaking in water(% relaxation – shrinkage)	± 30%
	5.	Determining water repellence of fabrics by cone test	1 ml to 400 ml
	6.	Determining water repellency of fabrics by water spray test	Rating 0 to 100
	7.	Determination of resistance to penetration by water of fabrics by static pressure head test	5 to 90 cm water column with 10cm ² dia
	8.	Determination of dimensional changes of fabrics containing wool on soaking in water	± 30%
	9.	Determination of mass per unit area (mass/sq.mtr) of the coated and treated fabrics	10 to 500gm
	10.	Determination of dimensional changes of gents' rib – knitted nylon stockings soaking in water	± 30%
	11.	Determination of breaking strength and extension at break of coated & treated fabrics	40 N to 8,000 N
12.	Determination of linear density of yarn in tex from	Up to	

	package yarn	
13.	Determination of length (m/kg) of sewing thread	Up to 500 m
14.	Determination of breaking load & elongation at break of single strand	Up to 200 N
15.	Determination of linear density, diameter and length of lay of ropes and cordages	500 ktex Up to 10 cm 150 mm
16.	Determination of breaking load & elongation at break of ropes and cordages	Up to 2500 KG
17.	Determination of tear strength of coated & treated fabrics	5 N to 1500 N
18.	Determination of wool fibre diameter and fineness of wool tops – projection microscope method	Up to 48 microns
19.	Determination of thickness of textiles and Textiles products	0.1 to 20 mm
20.	Determination of buoyancy ratio of kapok	14 to 19
TEXTILE CHEMICAL		
21.	Determination of pH value of aqueous extracts of textile materials	1 to 14
22.	Determination of scouring loss in grey and finished cotton textile materials	0.2 to 10%
23.	Determination of water soluble matter of textile materials	0.1 to 10%
24.	% ash content in grey and finished cotton textile materials	0.1 to 10%
25.	Identification textile fibres	Qualitative
26.	Quantitative chemical analysis of mixtures of polyester fibers with cotton and regenerated	2 to 100%
27.	Determination of colour fastness of textile materials to washing: Test 1	Upto Rating 5
28.	Determination of colour fastness of textile materials to	Upto Rating 5

	washing: Test 2	
29.	Determination of colour fastness of textile materials to washing: Test 3	Upto Rating 5
30.	Determination of colour fastness of textile materials to washing: Test 4	Upto Rating 5
31.	Determination of colour fastness of textile materials to washing: Test 5	Upto Rating 5
32.	Determination of Colour Fastness Of Textile Materials To Artificial Light (Xenon Lamp)	Upto Rating 6
33.	Determination of colour fastness of textile materials to perspiration	Upto Rating 5
34.	Determination of colour fastness of textile materials to hypochlorite bleaching	Upto Rating 5
35.	Determination of Colour Fastness of Textile Materials to Sea Water	Upto Rating 5
36.	Determination of colour fastness of textile materials to rubbing	Upto Rating 5
37.	Determination of colour fastness of textile materials to dry-cleaning	Upto Rating 5
38.	Qualitative chemical analysis of binary mixture of regenerated cellulose fibers and Cotton	2 to 100%
39.	Quantitative chemical analysis of binary mixtures of protein fibers with certain other non-protein fibres	2 to 100%
40.	Quantitative chemical analysis of binary mixtures of Nylon 6 or Nylon 6.6 Fibers and certain other fibres	2 to 100%
41.	Textiles - Binary mixtures of acrylic, certain modacrylics and certain other fibers -	2 to 100%

	Methods for quantitative chemical analysis	
42.	Jerseys, Y-Neck, Plain-Knitted, Worsted {Loss in Mass % (3:2 in Benzene: Methanol)}	Upto 10%
43.	Estimation of Copper Content (%)	Upto 5%
44.	Estimation of Zinc Content (%)	
45.	Proofing Content (%) in Special Proofed Canvas and Duck	Upto 5%
46.	Determination of iron content in textiles material	Upto 5%
47.	Determination of chromium content In textiles material	Upto 10%
48.	Determination of chloride content of textile materials	Upto 5%
49.	Method for Determination of sulphate content in textile materials	Upto 5%
50.	Determination of barium activity number of cotton textile materials	80 to 165
51.	Estimation of residual starch in cotton fabrics after desizing	Upto 5%
RUBBER, LEATHER & FOOTWEAR		
52.	Determination of (%) rubber hydrocarbon of rubber product	20 to 98%
53.	(%) Ash content (filler) of rubber product	0.5 to 50%
54.	(%) Carbon black of rubber product	10 to 50%
55.	Determination of (%) acetone-chloroform extractable material of rubber product	Upto 30 %
56.	Determination of (%) alcoholic potash extract material of rubber product	Upto 5 %

57.	Determination of (%) total sulphur of rubber product	Upto 5 %
58.	Determination of (%) inorganic sulphur of rubber product	Upto 5 %
59.	Determination of (%) organic sulphur of rubber product	Upto 5 %
60.	Determination of (%) nitrogen (calculated as glue) of rubber product	Upto 30 %
61.	Rubber polymer content (%) of rubber product	Upto 80 %
62.	Determination of thickness of rubber components at different places	0.1 to 10 mm
63.	Chemical testing of leather components: Determination of pH of water soluble matter	1 to 14
64.	Determination of volatile matter of leather	Upto 30 %
65.	Determination of solvent extractible matter of leather	Upto 30 %
66.	Determination of (%) moisture content of leather	Upto 30 %
67.	Determination of total ash of all type of leather	Upto 30 %
68.	Determination of water soluble matter in all types of leather	Upto 50 %
69.	Determination of sulphated ash of water soluble in all types of leather	Upto 30 %
70.	Determination of water insoluble ash in all types of leather	Upto 20 %
71.	Determination of nitrogen and hide substance in all types of leather	Upto 80 %
72.	Determination of bound organic and degree of tannage in vegetable tanned leather	Upto 80 %

73.	Determination of chromic oxide content	Upto 10 %
74.	Determination of shape retension of toe cap of boot ankle leather	Upto 40 %
75.	Determination of thickness of leather test piece	0.1 to 10 mm
76.	Determination of hardness of vulcanized rubber sample	Upto 100 Shore A
77.	Determination of hardness of vulcanized rubber sample after ageing	Upto 100 Shore A
DOWN FEATHER		
78.	Determination of Composition (Content Analysis) of Plumage	30 to 95%
79.	Determination Volume Measurement (Fill Power) of Down & Feathers With Steam Conditioning	100 to
80.	Determination of Turbidity of Down & Feathers With Automated NTU meter	1 to 10
81.	Determination Oxygen Number of Down & Feathers	Upto 10
82.	Determination The Ph Value of Down & Feathers	0 to 14
83.	Determination of Percentage of Oil And Fat Contents In Down & Feathers Products	Upto 10%
84.	Determination Percentage of Moisture Content In Down & Feathers	Upto 20%