

**Test Parameters**  
**Tests Carried Out By Laboratories of Textiles Committee**

2. CHEMICAL PARAMETERS						
FABRIC : Chemical Parameters						
SR. NO.	TEST PARAMETER	INSTRUMENT	TEST METHOD	SAMPLE SIZE (Min)	* TEST CHARGES (Rs)	Dwell TIME #
1.	Identification of fibre	Microscope Projection Microscope	AATCC 20 IS 667	1 mtr X full width	350.0	1 day
2	<b>Quantitative analysis inclusive of identification:</b>	IR Oven, Electronic Balance	AATCC 20A	1 mtr X full width	550.0	1-2 days
			BS 4407			
			ISO 1833			
			IS 9889 (Silk + Wool)			
			IS 1889(Part 4) (Cotton + Viscose)			
			IS 6503 & 2005 (Nylon + others)			
Two components	IR Oven, Electronic Balance	IS 2006 (Wool + others)	1 mtr X full width	250.0	1-2 days	
Extra for each component		IS 3416 (Polyester + Cotton) (Polyester + Viscose)				
		IS 3421 (Acrylic + others) –DMF method				
		IS 9896 (Polyolefin + others)				
3	Scouring and bleaching	Electronic Balance	IS 1383	1 mtr X full width	600.0	1-2 day
4	p <sup>H</sup> determination	p <sup>H</sup> meter	BS 3266 AATCC 81 ISO 3071 IS 1390	1/2 mtr X full width	300.0	1 day
5	<b>Removal of non fibrous matter :</b>					
	Oil, fats and waxes	IR Oven. Electronic Balance	ISO Tech. Rept No. 5090 IS 9068	1 mtr X full width	550.0	1-2 day
	Water soluble matter (Cold water / Hot water)		IS 3456		500.0	
6	<b>Estimation of</b>					
	Ash	Muffle Furnace IR Oven'	BS 6646 IS 199	1/2 mtr X full	600.0	1 day
	Total size	Electronic Balance	IS 199		600.0	

	Finish		IS 199	width	600.0	1 day
	Fatty matter		IS 199		600.0	
	Starch		IS 199		550.0	
7	Alkali content		ISO 2916	1/2 mtr X full width	550.0	1-2 day
	Alkali solubility		ISO 3072(Wool)		550.0	
	Acid content		ISO 3073(Wool)		550.0	
8	Chloride content	By Titration	BS 3266	1 mtr X full width	500.0	1 day
			IS 4202			
9	Copper or Zinc content in rot proofed materials	Electronic Balance	IS 1039	1 mtr X full width	600.0	1-2 days
		Muffle Furnace				
10	Test for mercerisation (Barium activity number)	Electronic Balance	AATCC 89	1 mtr X full width	600.0	1 day
		Wet Analysis	IS 1689			
11	Identification of dyes (per class)	Wet Analysis	IS 4472(Part-I / II / III)	1 mtr X full width	550.0	1-2 days
12	Wool fibre content of raw wool	Electronic Balance	IS 1349	1 mtr X full width	550.0	1-2 days
		Muffle Furnace				
		Soxhlet Apparatus				
		Oven				
		Scouring Unit				
13	Absorbency					
	Iodine absorption test	Wet Analysis	AATCC 79(Bleached textiles)	1 mtr X full width		1-2 days
	of cotton fabrics		Textiles Committee Method	1 mtr X full width	500.0	
	of terry towel			One unit	500.0	
14	<b>Dimensional changes of woven or knitted fabrics</b>					
	To washing	Washing Machine & Tumble Drier	AATCC 135	1 mtr X full width		1 day
	“ one wash				300.0	
	“ per additional wash	Measuring Scale	IS 1299 (Rayon & synthetic)		200.0	
	To relaxation	Tray	IS 2977(Other than wool woven & knitted)	1 mtr X full width	300.0	1-2 days
Measuring Scale		IS 665 (Containing wool)				
15	Wettability	Cone Test Apparatus	BS 4554	1 mtr X full width	250.0	1-2 days
			IS 2349			
	<b>Flammability test:</b>					
	Inclined plane	Flammability Tester	IS 11871 (Method B) ASTM D1230	1 mtr X full width	1000.0	1 day

16	Vertical plane	Flammability Tester	IS 11871 (Method A) ASTM D6413	1 mtr X full width	1000.0	1 day	
	Upholstery & bedding items (Smouldering Cigarette)				1000.0		
	Small open flame	Flammability Tester		1 mtr X full width	1000.0		
	Wooden cribs			1 mtr X full width	2500.0		
	Carpet	Flammability Tester		1 mtr X full width	5000.0		
<b>Colour fastness to:</b>							
Washing							
	· Test I	Launder-o-meter	IS/ISO 105-C10	1 mtr X full width			
	· Test II		ISO 105-C10		250.0	1 day	
	· Test III		BS EN 20105-C10		250.0		
	· Test IV				250.0		
	· Test V				400.0		
	· Test V		1000.0				
Light							
<i>By ISO / IS method</i>							
	· up to 3 BWS				550.0	1-2 days	
	· above 3 to 4 BWS				1000.0	3-4 days	
	· above 4 to 5 BWS	Weather-o-meter	ISO 105-B02	1/2 mtr X full width	1500.0	4-5 days	
	· above 5 to 6 BWS		IS 2454		3000.0	4-5 days	
	· above 6 BWS		AATCC test method 16 option H/E		4000.0	4-5 days	
<i>By AATCC Method</i>							
	· 10 AFU					550.0	1-2 days
	· 20 AFU				1000.0	3-4 days	
	· 40 AFU				1500.0	4-5 days	
	· 80 AFU				3000.0	4-6 days	
	· additional 10 AFU & fraction thereof				500.0	1-2 days	
Bleaching							
		Wet Analysis	ISO 105 No.1(Hypochlorite) IS 762(Hypochlorite) ISO 105 No.2(Peroxide) IS 763(Peroxide)	1 mtr X full width	500.0	1-2 days	
Hot pressing Dry/wet/damp							
		Pressing Iron	AATCC 133 BS 1006(X11) ISO 105-X11 IS 689	1 mtr X full width	500.0	1 day	
Rubbing (dry / wet)							
		Crock Meter	AATCC 8 ISO 105-X12	1 mtr X full	250.0	1 day	
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	Rubbing (dry / wet)	Clock Meter	BS 1006(X12) IS 766	width	200.0	1 day
	Organic solvent	Launder-o-meter	BS 1006(X05)	1 mtr X full width	400.0	1 day
		Wet Analysis	ISO 105-X05 IS 688			
	Dry cleaning	Flask Shaker	AATCC 132	1 mtr X full width	550.0	1 day
			ISO 105-D01			
			BS 1006 (D01) IS 4802			
	Perspiration (acid & alkaline)	Perspirometer	AATCC 15	1 mtr X full width	300.0	1-2 day
			ISO 105-E04			
			BS 1006 (E04) IS 971			
	Water	Perspirometer	AATCC 107	1 mtr X full width	300.0	1-2 day
	By BS, ISO, IS method		BS 1006 E01			
	By AATCC method		ISO 105 E01 IS 767			
	Ozone			1/2 mtr X full	1500.0	1-2 day
	Saliva			1/2 mtr X full	500	1-2 day
	Swimming pool water			1/2 mtr X full	500	1-2 day
	Sea water			1/2 mtr X full	500	1-2 day
	Sublimation			1/2 mtr X full	500	1-2 day
	Mercerisation			1/2 mtr X full	500	1-2 day
18	Purity of salt – lime			1/2 mtr X full	250	1-2 day
19	Soda Ash			1/2 mtr X full	250	1-2 day
20	Purity of acid alkali			1/2 mtr X full	250	1-2 day
21	Rust proof			1/2 mtr X full	500	1-2 day
22	Wicking			1/2 mtr X full	500	1-2 day
23	Cotton waste – white			1/2 mtr X full	3500	1-2 day
24	Cotton waste – grey			1/2 mtr X full	2500	1-2 day
25	Wash care (includes CF to wash at 40°C, CF to dry cleaning, Shrinkage to wash, CF to hot press)			1/2 mtr X full width	1600	1-2 day
				1/2 mtr X full		1-2 day
26	Soil release – oily stain release			1/2 mtr X full	500	1-2 day
27	Wetting oil efficiency			1/2 mtr X full	500	1-2 day
28	Dye ability of grey fab			1/2 mtr X full	1600	1-2 day

\* (Plus Service Tax as applicable) Conditions and testing service charges are Subject to Change without prior notice.

**# Working day only**

**Note: Test duration may vary with number of samples/ parameters/technical complexities etc**