

The characteristics of the following medical textile products
can be evaluated at SITRA

Product/Test parameter	Standard	Minimum sample size required
Surgical Gown		
Hydrostatic resistance	AATCC 127	1 metre of cloth
Bacterial filtration efficiency	ASTM F 2101	0.5 metre of cloth
Fabric particulars		
Threads/unit length	ASTM D 3775	0.5 metre of cloth
Yarn count	ASTM D 1059	0.5 metre of cloth
Weight/square metre	ASTM D 3776	0.5 metre of cloth
Tear strength		
Woven	ASTM D 1424	0.5 metre of cloth
Non-woven	ASTM D 5734	0.5 metre of cloth
Tensile properties	ASTM D 5034	1 metre of cloth
Thickness	ASTM D 1777 IS 7702	0.25 metre of cloth
Stiffness	ASTM D 4032/BS 3356	0.5 metre of cloth
Pilling	IS 10971	1 metre of cloth
Co-efficient of drape		
Woven	BS 5058	1 metre of cloth
Non woven	ASTM D 1388	1 metre of cloth
Air permeability	ASTM D 737	0.5 metre of cloth
Bursting strength	IS 1966	1 metre of cloth
Antibacterial activity assessment (Qualitative)	AATCC 147	0.5 metre of cloth
Antibacterial activity assessment (Quantitative)	AATCC 100	0.5 metre of cloth
Resistance to microbial penetration	-	0.5 metre of cloth
Thermal resistance	ISO 11092 BS EN 31092:199	2 metres of cloth
Water- vapour resistance	ISO 11092 BS EN 31092:199	2 metres of cloth
Water- vapour permeability	ISO 11092 BS EN 31092:199	2 metres of cloth

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Product/Test parameter	Standard	Minimum sample size required
Sutures		
Tensile strength	ASTM D 6329-00ae3	
Elongation	ASTM D 5250-00 e4	
Knot strength	ISO 11193-1-2002	
Creep test	-	
Bending stiffness	-	
Diameter	-	
Bed Linen		
Fabric particulars		
Threads/unit length	ASTM 377503	0.5 metre of cloth
Yarn count	ASTM D 1059	0.5 metre of cloth
Weight/square metre	ASTM D 3776 IS 1964	0.5 metre of cloth
Tensile strength	ASTM D 5035	1 metre of cloth
Tear strength	ASTM D 1424	0.5 metre of cloth
Fastness properties		
Light	IS 2454,AATCC 16	0.5 metre of cloth
Rubbing	IS 766, AATCC 8	0.5 metre of cloth
Washing	AATCC 61	0.5 metre of cloth
Perspiration	IS 790: AATCC 15	0.5 metre of cloth
Antibacterial activity assessment (Qualitative)	AATCC 147	0.5 metre of cloth
Antibacterial activity assessment (Quantitative)	AATCC 100	0.5 metre of cloth
Resistance to microbial penetration	-	0.5 metre of cloth
Thermal resistance	ISO 11092 BS EN 31092:199	2 metres of cloth
Water- vapour resistance	ISO 11092 BS EN 31092:199	2 metres of cloth
Water -vapour permeability	ISO 11092 BS EN 31092:199	2 metres of cloth

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Product/Test parameter	Standard	Minimum sample size required
Medical Gloves		
Tensile strength and elongation at break	ASTM D 6329-00ae3 ISO 11193-1	1 metre of cloth
Baby Diaper/Napkin		
Liquid strike through time	EDANA 150.5	0.5 metre of cloth
Wet back	EDANA 151.2	0.5 metre of cloth
Weight/unit area of non woven	ASTM D 3776	0.5 metre of cloth
Abrasion resistance	ASTM D 3885	0.5 metre of cloth
Thickness	ASTM D 1777	0.25 metre of cloth
Fibre identification	ASTM D 276 AATCC 20, IS 667	0.5 metre of cloth
Face Mask		
Air permeability	ASTM D 737	0.5 metre of cloth
Bacterial filtration efficiency	ASTM F 2101-07	0.5 metre of cloth
Wound Dressings/ Bandages		
Threads/unit length	ASTM D 3775	0.5 metre of cloth
Yarn count	ASTM D 1059	0.5 metre of cloth
Tensile properties	ASTM D 5035	1 metre of cloth
Weight/unit area	ASTM D 3776	0.5 metre of cloth
Tear strength	ASTM D 1424	0.5 metre of cloth
Peel strength		0.5 metre of cloth
Fibre identification	ASTM D 276 AATCC 20	0.5 metre of cloth
Thickness	ASTM D 1777	0.25 metre of cloth
Water repellency	AATCC- 22	1 metre of cloth
Antibacterial activity assessment (Qualitative)	AATCC 147	0.5 metre of cloth
Antibacterial activity assessment (Quantitative)	AATCC 100	0.5 metre of cloth
Identification of foreign fibres	-	0.25 metre of cloth
Water soluble substances, Ether soluble		0.5 metre of cloth
Presence of surfactants		0.5 metre of cloth

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Product/Test parameter	Standard	Minimum sample size required
Wound Dressings/ Bandages (contd...)		
Residual total dissolved solids	-	0.5 metre of cloth
Sulphate content	IS 4203	0.5 metre of cloth
Ash content	IS 199	0.5 metre of cloth
Presence of fluorescence	-	0.25 metre of cloth
Absorbency	-	0.25 metre of cloth
Thermal resistance	ISO 11092 BS EN 31092:199	2 metres of cloth
Water- vapour resistance	ISO 11092 BS EN 31092:199	2 metres of cloth
Water -vapour permeability	ISO 11092 BS EN 31092:199	2 metres of cloth
Incontinence Products		
Thickness	ASTM D 1777 IS 7702	0.25 metre of cloth
Air permeability	ASTM D 737	0.5 metre of cloth
Tear strength Woven Non-Woven	ASTM D 1424 ASTM D 5734	0.5 metre of cloth 0.5 metre of cloth
Weight/square metre	ASTM D 3776	0.5 metre of cloth
Hydrostatic resistance	AATCC 127	1 metre of cloth
Wet back	EDANA 151.2-99	0.5 metre of cloth
Antibacterial activity assessment (Qualitative)	AATCC 147	0.5 metre of cloth
Antibacterial activity assessment (Quantitative)	AATCC 100	0.5 metre of cloth
Antifungal evaluation	AATCC 30	0.5 metre of cloth
Wicking rate	-	0.5 metre of cloth
Thermal resistance	ISO 11092 BS EN 31092:199	2 metres of cloth
Water- vapour resistance	ISO 11092 BS EN 31092:199	2 metres of cloth
Water -vapour permeability	ISO 11092 BS EN 31092:199	2 metres of cloth

The characteristics of the following medical textile products
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Product/Test parameter	Standard	Minimum sample size required
Ligaments		
Strength and elasticity	-	
Adhesive Laminated Products		
Peel strength	ASTM D 4917 ASTM D 3330 ISO 8295	0.5 metre of cloth
Surgical Adhesive Tape		
Fibre identification Extensibility Breaking load Number of threads	- ASTM D 5035 IS 1969	0.5 metre of tape
Surgical Cotton Wadding		
Absorbency	ASTM D 4772	0.25 metre of cloth
Antibacterial activity assessment (Qualitative)	AATCC 147	
Antibacterial activity assessment (Quantitative)	AATCC 100	
Eye Pad		
Absorbency	ASTM D 4772	
Seal integrity for poly pack	-	
