



THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION
CENTRE OF EXCELLENCE FOR MEDICAL TEXTILES

Coveralls

Test Parameter	International / Indian Standard	Sample Required	Turn Around Time [@]	Testing Charges (Rs. per sample)#
<u>Physical Parameters</u>				
Coveralls for COVID-19 - Specification or Synthetic Blood Penetration Resistance Test	IS 17423 ISO 16603 IS 16546 ASTM F1670	1 Coverall	2 days	4500
Mass Per Unit Area	ISO 9073-1	1 Coverall	1 day	180
<u>Biological Parameters</u>				
Viral Penetration Resistance Test	ISO 16604 IS 16545 ASTM F 1671	1 Coverall	5 days	10000
Resistance to Dry Microbial Penetration	ISO 22612	1 Coverall	3 days	13500

GST as applicable (18% at present) for all testing charges quoted in this table and all subsequent tables

@ *Turn around time (TAT) means the time taken for the sample to be tested from the time it is taken inward for testing. TAT may increase during times of sample backlogs.*



Surgical Gowns & Surgical Drapes

Specification – IS 17334 (Package Test)

Test Parameter		International / Indian Standard	Sample Required	Turn Around Time	Testing Charges (Rs. per sample)#
<u>Physical Parameters</u>		ISO 18695	4 gowns/ drapes	2 days	600
Impact penetration (g)		ISO 811		2 days	550
Hydrostatic resistance (cmwc)		IS 16546 / ISO 16603		2 days	4500
Synthetic Blood Penetration Resistance		IS 15891-10		2 days	3000
Particle release [log10 (lint count)]		ISO 11092		2 days	6000
Moisture vapour transmission rate		IS 15891-3		2 days	490
Tensile strength (dry and wet) (N)		IS 1966		2 days	325
<u>Biological Parameters</u>		IS 16545 / ISO 16604	4 gowns/ drapes	5 days	10000
Viral Penetration Test		IS 11737		20 days	3750
Cleanliness–microbial (CFU/100 cm2)		IS 16548 / ISO 22612		3 days	13500
Resistance to microbial penetration — Dry		IS/ISO 10993-5		15 days	1600
Cytotoxicity	Direct			15 days	2100
	In Direct			15 days	2500
	Test on extract			3 months	126500
Irritation and skin sensitization					



Surgical Gowns & Surgical Drapes

Test Parameter - AAMI PB 70 (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time	Testing Charges (Rs. per sample)#
Water resistance Hydrohead test	AATCC 127	1 Sq.Meter / 1 Gown	2 days	550
Water Resistance - Impact Penetration Test	AATCC 42		2 days	600
Synthetic Blood Penetration Test	ASTM F1670		2 days	4500
Viral penetration test	ASTM F1671		5 days	10000

Test Parameter - EN 13795 (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time	Testing Charges (Rs. per sample)#
Water resistance Hydrohead test	EN ISO 811	3 Sq.Meters / 4 Gown	2 days	550
Linting	EN ISO 9073-10		2 days	3000
Resistance to Microbial Penetration — Dry	EN ISO 22612		3 days	13500
Cleanliness microbial / Bioburden	EN ISO 11737-1		20 days	3750
Bursting Strength-Dry	EN ISO 13938-1		2 days	325
Bursting Strength-Wet	EN ISO 13938-1		2 days	325
Tensile Strength-Dry	EN 29073-3		2 days	840
Tensile Strength-Wet	EN 29073-3		2 days	840



Facemasks

Test Parameter – IS 16289 (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time	Testing Charges (Rs. per sample)#
Differential Pressure	IS 16289 Annex C	10 facemasks	2 days	825
Splash Resistance	IS 16289 Annex D	35 facemasks	2 days	4500
Bacterial Filtration Efficiency	IS 16288	5 facemasks	4 days	4550

Note : Not part of the package but available for individual testing is the test for Particulate Filtration Efficiency at 0.3 microns under IS 16289 Annex E testing standard

Test Parameter – ASTM F2100 (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time	Testing Charges (Rs. per sample)#
Differential Pressure	MIL*	10 facemasks	2 days	825
Splash Resistance	ASTM F1862	35 facemasks	2 days	4500
Particulate Filtration Efficiency at 0.3 microns	ASTM F2299	5 facemasks	2 days	7500
Bacterial Filtration Efficiency	ASTM F2101	5 facemasks	4 days	4550
Flammability	16 CFR 10	5 facemasks	2 days	2250

Test Parameter – EN 14683 (Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time	Testing Charges (Rs. per sample)#
Differential Pressure	EN 14683-Annex C	10 facemasks	2 days	825
Splash Resistance	ASTM F1862	35 facemasks	2 days	4500
Bacterial Filtration Efficiency	EN 14683-Annex B	10 facemasks	4 days	7500

* Standard not available



Seam Tapes

Test Parameter	International / Indian Standard	Sample Required	Turn Around Time	Testing Charges (Rs. per sample)#
Synthetic Blood Penetration Resistance Test	IS 17423 ISO 16603 IS 16546 ASTM F1670	75 sq.cm (10 numbers)	2 days	5550
Resistance to Dry Microbial Penetration	ISO 22612	50 sq.cm (15 numbers)	3 days	13500

Sanitary Napkins

(Package Test)

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time	Testing Charges (Rs. per sample)#
Package Test for Sanitary Napkin (Length, Width, Thickness, Absorbency, Disposability, pH)	IS 5405	10 nos	2days	1630



Baby Diapers

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time	Testing Charges (Rs. per sample)#
Liquid strike through time & Wetback	ISO 9073-8 & ISO 9073-14	10 nos	2 days	1000
Repeated liquid strike through time & wetback	ISO 9073-13 & ISO 9073-14	5 nos	2 days	1000
Run-off	ISO 9073-11	5 nos	2 days	550
Overall liquid transport characteristics	AATCC 195	5 nos	2 days	1100
Free swell capacity	WSP 240.3	1 no	2 days	550
Centrifuge retention capacity	WSP 241.3	1 no	2 days	1500
pH of aqueous extract	IS 1390	1 no	2 days	250



Other Biological Tests

Test Parameter	International / Indian Standard	Sample Requirement	Turn Around Time	Testing Charges (Rs. per sample)#
Bioburden Testing	ISO 11737 - 1	1 (Unopened pack)	20 days	3750
Isolation and identification of normal flora <i>S.aureus</i>	IS 5887 Part 2	2 nos	3 days	600
Invitro cytotoxicity (Direct Method)	ISO 10993 Part 5	2 nos (Unopened pack)	15 days	1600
Invitro cytotoxicity (In Direct Method)	ISO 10993 Part 5	2 nos (Unopened pack)	15 days	2100
Skin Irritation	ISO 10993 Part 10	20 nos	2 months	22000
Skin Irritation (NABL)	ISO 10993 Part 10	20 nos	2 months	27500
Skin Sensitization	ISO 10993 Part 10	20 nos	3 months	77000
Skin Sensitization (NABL)	ISO 10993 Part 10	20 nos	3 months	99000
*Antibacterial Evaluation (Qualitative)	AATCC 147	1 nos	3 days	1300
*Antibacterial Evaluation (Quantitative)	AATCC 100 & ASTM E2149	5 nos	5 days	2000
Antibacterial Evaluation	JIS L1902	5 nos	5 days	2850
**Biodegradability testing	AATCC 30 Part 1	15 nos	16 weeks	3300

* *If the samples is coated with antimicrobial compound*

** *If the sample is claimed as degradable.*

