ITTPL

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To Whom It May Concern

In order to promote indigenous developments in India, ITT has initiated testing of protective textiles at a nominal fee. The test results should be used for internal developments only and third party testing should be performed for CE and other certifications. Further, training on these testing machines are also available as per request.

Performance testing of Protective Textiles as per BS EN 388:2016, BS EN 407:2020 & BS EN

S. No.	Testing as per BS EN 388:2016	Charges/sample (Rs.)	Total (Rs.)
1	Abrasion test	800.00	7000.00
2	Cut-test (TDM as per ISO 13997)	4000.00	
3	Tear resistance	800.00	
5	Puncture resistance	600.00	
6	Impact resistance	800.00	
	Testing as per BS EN 407:2021	**Charges/sample (Rs.)**	**Total (Rs.)**
1	Flammability test	1000.00	9500.00
2	Contact heat transmission	1000.00	
3	Convective heat transmission	1000.00	
4	Radiant heat transmission	1500.00	
5	Small drops of molten metal	2500.00	
6	Large drops of molten metal	2500.00	
	Testing as per BS EN 1149 part 1	**Charges/sample (Rs.)**	**Total (Rs.)**
1	Protective Clothing-Electrostatic properties-Part 1: Test method for measurement of surface resistivity	1500.00	1500.00
	Testing as per BS EN 1149 part 3	**Charges/sample (Rs.)**	**Total (Rs.)**
1	Protective Clothing-Electrostatic properties-Part 3: Test methods for measurement of charge decay.	2500.00	2500.00

*Above testing is performed to compare samples against small and large drops of molten aluminium, glass, copper as per requirement.

Additional tests available for new developments:

1. Abrasion, Cut, Puncture as per ANSI/ISEA 105:2016;
2. Thermal testing of woven and knitted fabrics as per ISO 11611, ISO 11612, EN 469;
3. Stab and Impact test as per VPAM KDIW 2004 or HOSDB Body Armour Standards for UK Police (2007), Part 3: Knife and Spike Resistance;
4. Thermal Protective Performance, TPP as per ASTM F2700/ ISO 17492;
5. Evaluation of Conductive & Compressive Heat Resistance as per ASTM F1060;
6. Protection against low pressure steam upto 5 bar;
7. Analysis of GSM, Gauge, Composition, Thickness for knitted and woven samples.