



INTERTEK TEST REPORT

3933 US ROUTE 11

CORTLAND, NEW YORK 13045

Order No. G102210076

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Date: July 24, 2015

REPORT NO.: 102210076CRT-001

QUOTE: 500609522

RENDERED TO:

**INDUTEX S.P.A
VIA S. FRANCESCO 8/10
20011-CORBETTA
ITALY**

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STANDARD(S) AND TEST USED: ASTM F 1670-14, Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood

ASTM F 1671-13, Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System.

AUTHORIZATION: The test was authorized by a signed quote: 500609522.

SPECIMEN DESCRIPTION: The test was performed on specimens identified by the client as "Puntiform fabric used for Sprayguard and Cleanguard items". The samples previously described, were received in pristine condition on 6/29/15. The testing was performed at Intertek located in Cortland, NY on 7/14/15 and 7/17/15.

CONCLUSION: The samples submitted by Indutex, were evaluated in accordance with ASTM F 1670-14, Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood and ASTM F 1671-13, Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System. Test data sheet is attached as an appendix (1 page following).

Report Written by:

Report Approved by:



Kimberly Lea
Microbiologist
Performance Group



Dannielle Loranger
PPE Reviewer
Performance Group

APPENDIX

ASTM F 1670:14 Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood

Product Name/Model/Description: Puntiform fabric used for Sprayguard and Cleanguard items

Conditioning: At a temperature of $21 \pm 5^\circ\text{C}$ and a relative humidity of 30-80% until equilibrium is reached or for at least 24 hours, whichever is shorter.

Specimen Exposure Procedure: Procedure B: 0 psig for 5 minutes, 2 psig for 1 minute, 0 psig for 54 minutes. Stainless steel retaining screen used.

Test Results:

Test Results	Sample 1	Sample 2	Sample 3	Averages
Sample Thickness (mils)	11	10	11	10.6667
Sample Weight (g)	0.3711	0.3687	0.3684	0.3694
Time to Penetration (min)	>60	>60	>60	>60
Pass/Fail	Pass	Pass	Pass	

Note: Sample edges were waxed to prevent wicking.

ASTM F 1671-13, Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System

Product Name/Model/Description: Puntiform fabric used for Sprayguard and Cleanguard items

Conditioning: At a temperature of $21 \pm 5^\circ\text{C}$ and a relative humidity of 30-80% until equilibrium is reached or for at least 24 hours, whichever is shorter.

Specimen Exposure Procedure: Procedure B: 0 psig for 5 minutes, 2 psig for 1 minute, 0 psig for 54 minutes. Stainless steel retaining screen used.

Method of Sample Sterilization: UV-Light (Bio-hood Biosafety Level 2)

Test Results:

Quality Control Samples	PFU/ml	Results
Positive Control	>150	Acceptable (valid test)
Negative Control	0	Acceptable (valid test)
Pre-test Bacteriophage Titer	1.1×10^8	Acceptable (valid test)
Post Test Bacteriophage Titer	1.1×10^8	Acceptable (valid test)
Settle Plate(s)	0	Acceptable (valid test)

Sample Number	Sample Thickness (mils)	Sample Weight (g)	Assay Volume (mls)	Number of Plaques		Assay Titer (PFU/ml)	Test Terminated Due to Liquid Penetration	Pass/Fail
				Plate 1	Plate 2			
1	10	0.3712	5	0	0	0	No	Pass
2	10	0.3569	5	0	0	0	No	Pass
3	11	0.37	5	0	0	0	No	Pass
Averages	10	0.3660						

Note: Sample edges were waxed to prevent wicking.