

## Viral Penetration ASTM Method F 1671 Final Report

Test Article: 100% ANSI 107-2010 Polyester 300 Denier Maximum breathable waterproof PU and PTFE bicomponent transfer laminate membrane fabric used on OccuNomix SP-CVL coverall, SP-BRJ jacket & SP-BRP pants

Purchase Order: 462700  
 Laboratory Number: 554949  
 Study Received Date: 15 Nov 2010  
 Test Procedure(s): Standard Test Protocol (STP) Number: STP0062 Rev 09

**Summary:** This test method was performed to evaluate the barrier performance of protective materials which are intended to protect against blood borne pathogen hazards. Test articles were conditioned for a minimum of 24 hours at 21 ± 5°C and 30-80% relative humidity, and then tested for viral penetration using a ΦX174 bacteriophage suspension. At the conclusion of the test, the observed side of the test article was rinsed with a sterile medium and assayed for the presence of ΦX174 bacteriophage. The viral penetration method complies with ASTM F1671. All test method acceptance criteria were met.

Number of Test Articles Tested: 3  
 Number of Test Articles Passed: 3  
 Test Article Side Tested: Yellow Side  
 Test Article Preparation: Cut from Material at Random  
 Test Article Sealed: Paraffin Wax  
 Exposure Procedure: A (No retaining screen)  
 Compatibility Ratio: 1.0  
 Environmental Plate Results: Acceptable

**Results:**

Test Article Number	Pre-Challenge Concentration (PFU/mL)	Post-Challenge Concentration (PFU/mL)	Assay Titer (PFU/mL)	Visual Penetration	Test Result
1-3	3.2 x 10 <sup>8</sup>	3.4 x 10 <sup>8</sup>	<1 <sup>a</sup>	None Seen	Pass
Negative Control	3.2 x 10 <sup>8</sup>	3.4 x 10 <sup>8</sup>	<1 <sup>a</sup>	None Seen	Acceptable
Positive Control	3.2 x 10 <sup>8</sup>	3.4 x 10 <sup>8</sup>	TNTC <sup>b</sup>	Yes	Acceptable
Blank Control	N/A	N/A	<1 <sup>a</sup>	None Seen	Acceptable

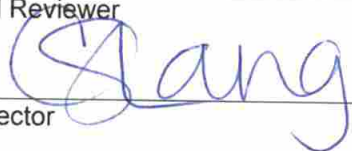
<sup>a</sup> A value of <1 plaque forming unit (PFU)/mL is reported for assay plates showing no plaques.

<sup>b</sup> TNTC = PFU were too numerous to count.

Technical Reviewer



Study Director



Courtney Lang, B.S.



23 NOV 2010  
 Study Completion Date