

## Synthetic Blood Penetration Resistance Final Report

Test Article: Product name: Particulate Respirator  
 Code of product: 9500-N95  
 Manufacturer name: Makrite Industries Inc.  
 Lot N° 082212  
 Laboratory Number: 709247.1 Amended  
 Study Received Date: 26 Aug 2013  
 Study Completion Date: 29 Aug 2013  
 Test Procedure(s): Standard Test Protocol (STP) Number: STP0012 Rev 05

**Summary:** This procedure was performed to evaluate surgical facemasks and other types of protective clothing materials designed to protect against fluid penetration. The purpose of this procedure is to simulate an arterial spray and evaluate the effectiveness of the test article in protecting the user from possible exposure to blood and other body fluids. The distance from the target area surface to the tip of the cannula is 30.5 cm. A test volume of 2 mL of synthetic blood was employed. This test method was designed to comply with ASTM F1862. All test method acceptance criteria were met.

Number of Test Articles Tested: 32  
 Number of Test Articles Passed: 31  
 Test Side: Outside  
 Pre-Conditioning: Minimum of 4 hours at 21 ± 5°C and 85 ± 5% relative humidity (RH)  
 Test Conditions: 22.1°C and 32% RH

**Results:** Per ASTM F1862, an acceptable quality limit of 4.0% is met for a normal single sampling plan when ≥29 of 32 test articles show passing results.

Test Pressure: 160 mm Hg

Test Article Number	Synthetic Blood Penetration	Test Article Number	Synthetic Blood Penetration
1	None Seen	17	None Seen
2	None Seen	18	None Seen
3	None Seen	19	None Seen
4	None Seen	20	None Seen
5	None Seen	21	None Seen
6	None Seen	22	None Seen
7	None Seen	23	None Seen
8	None Seen	24	None Seen
9	None Seen	25	None Seen
10	None Seen	26	None Seen
11	None Seen	27	None Seen
12	None Seen	28	None Seen
13	None Seen	29	None Seen
14	None Seen	30	None Seen
15	None Seen	31	None Seen
16	None Seen	32	Yes

**Amendment Justification:** At the request of the sponsor, "Product name: Particulate Respirator Code of product: 9500-N95 Manufacturer name: Makrite Industries Inc." was added to the test article.

  
 Study Director

Brandon L. Williams

  
 Amended Report Date

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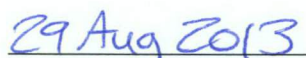
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10	None Seen	26	None Seen
11	None Seen	27	None Seen
12	None Seen	28	None Seen
13	None Seen	29	None Seen
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15	None Seen	31	None Seen
16	None Seen	32	Yes

  
 Study Director Brandon L. Williams

  
 Study Completion Date