



INTERTEK TEST REPORT

3933 US ROUTE 11

CORTLAND, NEW YORK 13045

Order No.: G103114207

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Date Issued: June 29, 2017

REPORT NO.: 103114207CRT-001

RENDERED TO:

**H.P. WHITE LABORATORY INC.
3114 SCARBORO RD
STREET, MD 21154-1822
USA**

STANDARD USED:

ASTM F1342 — Standard Test Method for Protective Clothing Material Resistance to Puncture — 2013 Edition. (**Modified** using the 28 gauge hypodermic needles specified in ASTM F 2878-10).

AUTHORIZATION:

The tests were authorized by Quote Number: Qu-00797360 signed by Marc Jeton on June 16, 2017.
Purchase order number: 12693.

SPECIMEN DESCRIPTION:

The tests were performed on samples identified by the client as "Steel Plate (4"x4" squares, 1/16)". The samples, previously described, were received by Intertek from H.P. White Laboratory Inc. on 06/21/2017, and evaluated on 06/28/2017. The testing was performed at Intertek located in Cortland, New York.

CONCLUSION:

The samples, submitted by H.P. White Laboratory Inc., were evaluated in accordance to ASTM F1342 — Standard Test Method for Protective Clothing Material Resistance to Puncture — 2013 Edition. (**Modified** using the 28 gauge hypodermic needles specified in ASTM F 2878). The Test Data Sheet is attached as an Appendix (1 page following).

Project Owner:



Adrian Pless
Associate Engineer
Performance Group

Report Approved by:



Rob Simmonds
Engineer
Performance Group

APPENDIX
ASTM F1342 — 2013 EDITION
STANDARD TEST METHOD FOR PROTECTIVE CLOTHING MATERIAL RESISTANCE TO PUNCTURE (MODIFIED)

PRODUCT DESCRIPTION: Steel Plate (4"x4" squares, 1/16")

METHOD USED (A, B, or C): A

HYPODERMIC NEEDLE GAUGE: 28

SUPPORT PLATE HOLES: (ASTM F2878-10) 10 mm

PROBE VELOCITY: 50.8 cm/min

SPECIMEN	PUNCTURE #	SPECIMEN THICKNESS (mils)	FORCE TO PUNCTURE (lbf)	DEFLECTION (mm)
1	1	88	N/A*	N/A*
	2	88	N/A*	N/A*
	3	88	N/A*	N/A*
2	1	86	N/A*	N/A*
	2	86	N/A*	N/A*
	3	86	N/A*	N/A*
3	1	91	N/A*	N/A*
	2	91	N/A*	N/A*
	3	91	N/A*	N/A*
4	1	92	N/A*	N/A*
	2	92	N/A*	N/A*
	3	92	N/A*	N/A*
AVG.		89	N/A*	N/A*

* Needle does not penetrate specimens. 28 gauge needle bends and crumples at less than 2 lbf. Puncture force, and deflection values cannot be achieved.