INTERTEK TEST REPORT

3933 US ROUTE 11 CORTLAND, NEW YORK 13045

Order No. 3198539 Page 1 of 6 **Date:** January 9, 2010

REPORT NO.: 3198539CRT-001

RENDERED TO:

SAFETYTOES INT'L INC
221 SHEPPARD AVE WEST
TORONTO, CA
M2N 1N2

STANDARD AND TEST USED: ASTM F 2412-05 Standard Test Method for Foot Protection ,Section 9 Electrical Shock Resistance Footwear Test, ASTM F 2412-05 Section 5 Impact Resistance, ASTM D 1630-94 Standard Test Method for Rubber Property – Abrasion Resistance and ASTM F 1790-05 Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing modified per NFPA 1971-07 Section 7.10.8 with 1000 gm.load.

AUTHORIZATION: The test was authorized by signed PO # P.S.12-23-09.

SPECIMEN DESCRIPTION: The tests were performed on specimens identified by the client as "Slipp-R Rubber Steel Toe Overshoe." The samples previously described, were received in pristine condition on 12/15/09. The tests were performed at Intertek located in Cortland, NY between 1/4/10 and 1/9/10.

CONCLUSION: The samples submitted by Safetytoes Int'l LLC, were evaluated in accordance with ASTM F 2412-05 Standard Test Method for Foot Protection ,Section 9 Electrical Shock Resistance Footwear Test, ASTM F 2412-05 Section 5 Impact Resistance, ASTM D 1630-94 Standard Test Method for Rubber Property – Abrasion Resistance and modified ASTM F 1790-05 Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing modified per NFPA 1971-07 Section 7.10.8 with 1000 gm.load.

Test data sheets are attached as an appendix (4 pages following).

Test Conducted by:

Karl Payne
PPE Engineer
Performance Group

Report Approved by:

Pam Kavalesky
Engineer
Performance Group

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APPENDIX
ASTM F 2412-05
ELECTRICAL SHOCK RESISTANCE

PRODUCT DESCRIPTION: Slipp-R

CONDITIONING: In accordance with ASTM D1776 at a temperature 21°C ± 3°C (70°F ± 5°F) and a relative humidity of 65% ± 5% until equilibrium is reached or for at least 24 hours, whichever is shorter.

SAMPLE TYPE: Rubber Steel Toe Overshoe

TYPE OF TEST: a-c

PERSCRIBED PROOF TEST VOLTAGE: 14,000 **LENGTH OF PROOF TEST:** 60 sec

SAMPLE NO.	CURRENT LEAKAGE (mA)
1	0.67

ASTM F 2412-05
IMPACT RESISTANCE

PRODUCT DESCRIPTION: Slipp-R

CONDITIONING: At a temperature 21°C ± 3°C (70°F ± 5°F) and a relative humidity of 65% ± 5% until equilibrium is reached or for at least 24 hours, whichever is shorter.

SAMPLE TYPE: Rubber Steel Toe Overshoe

CONDITIONING: In accordance with ASTM D1776 at a temperature 21°C ± 3°C (70°F ± 5°F) and a relative humidity of 65% ± 5% until equilibrium is reached or for at least 24 hours, whichever is shorter.

Toe Impact (Class I/75):

75-ft –lbf with impact velocity of 117.9 ± 2.4 in./sec. and 16/32(0.50)in clearance

Item Tested:	Gate Time (in./sec)	Clearance after Impact (mm)
Rt.	118.5	33.0

ASTM D 1630-04
ABRASION RESISTANCE

PRODUCT DESCRIPTION: Slipp-R

CONDITIONING: At a temperature 21°C ± 3°C (70°F ± 5°F) and a relative humidity of 65% ± 5% until equilibrium is reached or for at least 24 hours, whichever is shorter.

SAMPLE TYPE: Rubber Steel Toe Overshoe

SAMPLE NO.	1	2	3	AVG.
CYCLES TO ABRAIDE	367	370	553	430
NBS ABRASION NO.	65	71	58	65

ASTM F 1970-05 (MODIFIED)
CUT RESISTANCE TEST

PRODUCT DESCRIPTION: Slipp-R

CONDITIONING: In accordance with ASTM D1776 at a temperature 21°C ± 3°C (70°F ± 5°F) and a relative humidity of 65% ± 5% until equilibrium is reached or for at least 24 hours, whichever is shorter.

REFERENCE: NFPA 1971-07 Section 7.10.8

SAMPLE TYPE: Rubber Steel Toe Overshoe

CALIBRATION: Cut length for 1.5875 mm (0.0625 in.) thick Neoprene using a load of 500 gm.

PRE-TEST CUT LENGTH: 12.33 mm (A)

POST-TEST CUT LENGTH: 12.12 mm (B)

AVERAGE CUT LENGTH: 12.23 mm (CB)
(A + B/2 = CB)

BLADE SHARPNESS CORRECTION FACTOR: 0.96
(12.7/CB mm = correction factor)

SAMPLE NO.	CUT LOAD (g)	CUT DISTANCE (mm)	NORMALIZED CUT DISTANCE (mm)*
1	1000	>50	>48
2	1000	>50	>48
3	1000	>50	>48
AVG.		>50	>48