



**Laboratory Report No. 20063**  
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Cc: Dr. Sam Raney

P.O. #: n/a

Item: Three (3) pair of footwear

Identification: 1.) Style NTL5 2688, Size 42 (US Size 9 equivalent)  
 with Xiang Ying Puncture Resistant Device (per client)

Purpose: Puncture Resistance; ASTM F 2412-11/ASTM F2413-11  
 Impact Resistance and Compression Resistance; ASTM F2412-11/ASTM F2413-11  
 Measuring the Coefficient of Friction for Evaluation of Slip Performance; ASTM F2913-11

Test	Unit of Measure	Specimen Results			Average	Pass / Fail
<b><u>Puncture Resistant, lbf.</u></b>						
<b><u>ASTM F 2412-11</u></b>						
<b><u>ASTM F 2413-11</u></b>						
270 lbf applied						
		Specimen 1	Pass	Pass	Pass	Pass
		Specimen 2	Pass	Pass	Pass	Pass
		Specimen 3	Pass	Pass	Pass	Pass
<i>Requirement: The tip of the test pin shall not visually penetrate beyond the face of the material nearest the foot, after an applied force of 270 lbf (1200 N), when viewed at a 90 degree angle.</i>						
<b>Note:</b> The Puncture Resistance results reported are from Laboratory 19312-1 dated 11/15/13.						
<b><u>Impact Resistance</u></b>						
<b><u>ASTM F 2412-11</u></b>						
<b><u>ASTM F 2412-11</u></b>						
	Resistance, in.	0.573	0.607	0.544	0.575	Pass
	Velocity, in./sec	119.5	119.3	119.5	120.1	Pass
<i>Requirement: Class 75 Male; Resistance minimum of 0.500 in., Velocity of 117.9 ± 2.4 seconds.</i>						

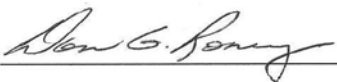
Test	Unit of Measure	Specimen Results					Average	Pass / Fail
<b>Compression Resistance</b>								
<b>ASTM F 2412-11</b>								
<b>ASTM F 2412-11</b>								
	Resistance, in.	0.752	0.727	0.773		0.751	Pass	
<i>Requirement: Class 75 Male; Resistance minimum of 0.500 in.</i>								
<b>Measuring the Coefficient of Friction for Evaluation of Slip Performance</b>								
<b>ASTM F 2913-11</b>								
Temperature: 72° F (50% RH)								
Vertical Force: 500 (± 25) N								
Dry								
<u>Forward Flat Slip</u>								
	Left	0.51	0.50	0.50	0.50	0.51	0.50	n/a
	Right	0.50	0.51	0.51	0.51	0.51	0.51	n/a
<b>Slip Resistance, Test Description</b>								
Quarry Tile =		SATRA Quarry Tile						
Dry =		Dry.						


**The Puncture Resistant Device identified above complies with ASTM F 2412-11/2413-11 requirements for puncture resistance.**

**Footwear complies with the performance requirements of ASTM F 2412-11/2413-11 for Protective Footwear in the categories tested above.**

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Signed:   
 Don G. Roney, Laboratory Manager

Signed:   
 Suzanne Piispanen, COO