

PRECISION TESTING LABORATORIES

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10-Apr-23

Mr. Oscar Murillo Luces del Norte S.A. 24 Calle 20-56 Zona 12 Guatemala HFR5+MW Guatemala City, Guatemala

Cc: Ms. Corina Castellanos

PO #: n/a

Item: Three (3) pair of footwear

Identification: Style: COLECCION RHINO SUELA PU PATRIOT 2.0 PUNTERA COMPOSITE

Size: 9 US Gender: Men's

Purpose: Coefficient of Friction for Evaluation of Slip Performance; ASTM F2913-19/ASTM F3445-21

Test			Sp	ecimen Res	sults		Average	Pass/Fail
Unit of Me	asure							
Coefficient of Friction for Evaluation of Slip Performance								
ASTM F2913-19								
ASTM F3445-21								
Temperature: 72°F (50% RH)								
Vertical Force: 500 (± 25) N								
SATRA Quarry								
Coefficient of Friction - Backward Forepart								
<u>Dry</u>	# 1	0.56	0.58	0.58	0.58	0.59	0.58	Pass
	# 2	0.56	0.56	0.56	0.57	0.58	0.57	Pass
	#3	0.57	0.58	0.59	0.59	0.59	0.58	Pass
<u>Wet</u>	# 1	0.43	0.42	0.42	0.41	0.40	0.42	Pass
	# 2	0.42	0.43	0.43	0.42	0.42	0.42	Pass
	#3	0.46	0.44	0.43	0.43	0.43	0.44	Pass
Coefficient of Friction - Forward Heel Slip								
Dry	# 1	0.69	0.67	0.69	0.70	0.71	0.69	Pass
	# 2	0.61	0.62	0.63	0.63	0.64	0.63	Pass
	#3	0.62	0.63	0.64	0.64	0.66	0.64	Pass
<u>Wet</u>	# 1	0.47	0.46	0.45	0.45	0.45	0.46	Pass
	# 2	0.42	0.42	0.44	0.43	0.43	0.43	Pass
	#3	0.45	0.45	0.45	0.45	0.45	0.45	Pass

Requirement: ASTM F3445, Section 11.1: Each footwear specimen shall have a COF of no less than 0.40 when tested in both heel and forepart modes using wet and dry quarry tile. The COF is the arithmetic mean (average) of five consecutive results for each specimen when tested per Test Method F2913.

ASTM F2913 Reagent Application

SATRA Quarry = SATRA Quarry Tile.

Dry= Dry.

Wet= Section 10.4.2 - Distilled or deionized water shall be applied to the flooring to thoroughly wet

the surface

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Signed:

Eric Olson, President