



Number: GZHT90881813

Date: Apr 25, 2019

Applicant: CORTINA N.V.

MEERSBLOEM-MELDEN 42, 9700 OUDENAARDE,BELGIUM Attn: ROCK/REBECCA

## Sample Description:

Three (3) groups of submitted samples said to be:

(A) Three (3) pairs of Men's Injection lace up low cut safety shoes in Black

(B) One (1) pair of Men's Injection lace up safety ankle boots in Black

(C) Three (3) pairs of Non-metallic anti-penetration inserts.

Standard : ASTM F2413-18

Size : US 9 Buyer's Name : --

Ref. No : LAVA/VOLCANO Brand : SAFETY JOGGER

Manufacturer : CORTINA

Colour : -Vendor : -Supplier : -P.O. No. : --

Ref. : Men Casual Safety Low with outsole Mould M2026 PU+PU

Country Of Origin : China

Goods Exported To : Belgium/U.S.A. Date Received/Date Test Started: Apr 19, 2019

Date Final Information Confirmed: --

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at <a href="mailto:qzfootwear@intertek.com">qzfootwear@intertek.com</a>

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliang Dong Senior Lab Manager

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CL / nicoleho

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## Total Quality. Assured. TEST REPORT

Tests Conducted (As Requested By The Applicant)

Protective Toe Impact Resistance (I) (ASTM F2412-18a, 5, Impact Force: 101.7 J (75 lbf), Testing Performed At 22℃ And 50% RH)

	(A)	ASTM F2413-18 Requirement	Pass/Fail
	Interior Height Clearance	·	
Left:	19.2 mm	≥ 12.7 mm	Pass
Right:	22.0 mm	≥ 12.7 mm	Pass
Left:	21.2 mm	≥ 12.7 mm	Pass

2 Protective Toe Compression Resistance (C) (ASTM F2412-18a, 6, Compression Force: 11 121 N (2 500 lbf), Testing Performed At 22°C And 50% RH)

	(A)	ASTM F2413-18 Requirement	Pass/Fail
	Interior Height Clearance		
Left:	22.5 mm	≥ 12.7 mm	Pass
Right:	25.3 mm	≥ 12.7 mm	Pass
Right:	23.7 mm	≥ 12.7 mm	Pass

3 Static Dissipative Footwear (SD) (ASTM F2412-18a, 10, Conditioned At 22°C And 50% RH For 24 h And Testing Performed At The Same Conditions)

		(A)	ASTM F2413-18 Requirement	Pass/Fail
	Left	$6.5 \times 10^{6}$ Ω	*	Pass
Sample 1	Right	$5.2 \times 10^6$ Ω	*	Pass
	One Pair	$3.4\times10^6~\Omega$	*	Pass
	Left	<b>6.0</b> ×10 <sup>6</sup> Ω	*	Pass
Sample 2	Right	$5.6 \times 10^6$ Ω	*	Pass
	One Pair	$3.5\times10^6~\Omega$	*	Pass
	Left	<b>4.8</b> ×10 <sup>6</sup> Ω	*	Pass
Sample 3	Right	6.1 $\times$ 10 <sup>6</sup> $\Omega$	*	Pass
	One Pair	$3.3\times10^6~\Omega$	*	Pass
Remark: * = SD	100: 1×10 <sup>6</sup> Ω ~ 1×	<b>10</b> <sup>8</sup> Ω		

/ nicoleho

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4 Puncture Resistance Footwear (PR) (ASTM F2412-18a, 11, Conditioned At 22℃ And 50% RH For 24 h And Testing Performed At The Same Conditions)

	(B)	ASTM F2413-18 Requirement	Pass/Fail
Left:	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot Before 1200 N.	Min. 1200 N (*)	Pass
Right:	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot Before 1200 N.	Min. 1200 N (*)	Pass
Right:	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot Before 1200 N.	Min. 1200 N (*)	Pass

Remark: \* = The Test Pin Does Not Visually Penetrate Beyond The Face Of The Material Nearest The Foot.

5 Flex Resistance For Puncture Resistant Devices (ASTM F2412-18a, 11.7 & CSA Z195-14, 6.3.2)

	(B)	ASTM F2413-18 Requirement	Pass/Fail
Left:	No Signs Of De-lamination Of Layers Or Cracking After $1.5 \times 10^6$ Flexes.	*	Pass
Right:	No Signs Of De-lamination Of Layers Or Cracking After $1.5 \times 10^6$ Flexes.	*	Pass
Left:	No Signs Of De-lamination Of Layers Or Cracking After $1.5 \times 10^6$ Flexes.	*	Pass

Remark: \* = No Signs Of De-lamination Of Layers Or Cracking After 1.5 x  $10^6$  Flexes.

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End Of Report

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