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TEST REPORT



中国认可
国际互认
检测
TESTING
CNAS L0220

Number: GZHT90865318

Date: Jan 29, 2019

Applicant: CORTINA N.V.
MEERSBLOEM-MELDEN 42,
9700 OUDENAARDE, BELGIUM

Attn: PETER DE MEZURE

Sample Description:

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

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

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

(C) Four and a half (4.5) pairs of Steel plates.

Standard : ASTM F2413-18
ASTM F2913-17

Size : US 9

Buyer's Name : CORTINA N.V.

Ref. No : ADVANCE, ELEVATE

Brand : SAFETYJOGGER

Manufacturer : CORTINA N.V.

Colour : Black

Vendor : --

Supplier : --

P.O. No. : --

Ref. : Men Casual High/Low Safety with M1916 PU/PU sole

Country Of Origin : --

Goods Exported To : Belgium/U.S.A.

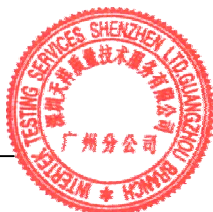
Date Received/Date Test Started: Jan. 23, 2019

Date Final Information Confirmed: --

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at gzfootwear@intertek.com

Authorized By:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch



Guiliang Dong
Senior Lab Manager



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

	(A)	<u>ASTM F2413-18 Requirement</u>	<u>Pass / Fail</u>
	Interior Height Clearance		
Left:	17.5 mm	*	Pass
Right:	17.4 mm	*	Pass
Left:	16.6 mm	*	Pass

Remark: * = ≥ 12.7 mm

- 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)	<u>ASTM F2413-18 Requirement</u>	<u>Pass/Fail</u>
	Interior Height Clearance		
Left:	20.6 mm	*	Pass
Right:	20.7 mm	*	Pass
Right:	20.8 mm	*	Pass

Remark: * = ≥ 12.7 mm

- 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
Sample 1	Left	$3.3 \times 10^7 \Omega$	*	Pass
	Right	$3.2 \times 10^7 \Omega$	*	Pass
	One Pair	$1.9 \times 10^7 \Omega$	*	Pass
Sample 2	Left	$2.9 \times 10^7 \Omega$	*	Pass
	Right	$2.9 \times 10^7 \Omega$	*	Pass
	One Pair	$1.7 \times 10^7 \Omega$	*	Pass
Sample 3	Left	$1.9 \times 10^7 \Omega$	*	Pass
	Right	$2.6 \times 10^7 \Omega$	*	Pass
	One Pair	$1.5 \times 10^7 \Omega$	*	Pass

Remark: * = SD 100 : $1 \times 10^6 \Omega \sim 1 \times 10^8 \Omega$

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

(C)		ASTM F2413-18 Requirement	Pass/Fail
Left :	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot Before 1 200 N.	Min. 1 200 N (*)	Pass
Right :	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot Before 1 200 N.	Min. 1 200 N (*)	Pass
Right :	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot Before 1 200 N.	Min. 1 200 N (*)	Pass

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

5 Corrosion Resistance For Puncture Resistant Plates (ASTM F2412-18a, 11.8 & ASTM B117, 5% NaCl Solution For 24 Hours)

	(C)	<u>ASTM F2413-18 Requirement</u>	<u>Pass/Fail</u>
Left :	No Sign Of Corrosion.	*	Pass
Right :	No Sign Of Corrosion.	*	Pass
Right :	No Sign Of Corrosion.	*	Pass

Remark: * = No Sign Of Corrosion, De-lamination, Or Deterioration.

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

	(C)	<u>ASTM F2413-18 Requirement</u>	<u>Pass/Fail</u>
Left:	No Signs Of Cracking After 1.5 x 10 ⁶ Flexes.	*	Pass
Right:	No Signs Of Cracking After 1.5 x 10 ⁶ Flexes.	*	Pass
Left:	No Signs Of Cracking After 1.5 x 10 ⁶ Flexes.	*	Pass

Remark: * = No Signs Of De-lamination Of Layers Or Cracking After 1.5 x 10⁶ Flexes.

7 Slip Resistance (ASTM F2913-17, Clay Tile Surface, Vertical Force: 500 N, 23°C, 50% R.H):

Sample	Size	Test Floor	Lubricant	Modes	Results
(A)	9 (Left)	Eurotile 2	NaLS	Forward Heel Slip (#)	0.45
				Forward Flat Slip (#)	0.48
		Steel Floor	Glycerine	Forward Heel Slip (#)	0.17
				Forward Flat Slip (#)	0.19

Remark: # = Using Standard Shoemaking Last

Note:

It Must Be Noted That The Slip Resistance Test Carried Out In This Report Denotes An Indication Of Slip Of This Particular Footwear/Component On The Surface Mentioned In The Test Item. It Is Important To Note That Footwear Is Subject To Many Different Conditions Encountered In Everyday Use And That It Is Impossible To Make Footwear Resistant To Slip In All Conditions. Nevertheless, It Is Generally Accepted That Problems Are Minimized If The Guideline Coefficients Of Friction Are Achieved.



End Of Report

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