

Applicant: CORTINA N.V.
MEERSBLOEM-MELDEN 42,
9700 OUDENAARDE, BELGIUM
Attn: REBECCA/ROCK

Sample Description:

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

(A) Three (3) pairs of Men's Injection lace up safety ankle boots in Black

(B) One (1) pair of Men's Injection lace up low cut safety shoes in Black

(C) Five (5) pairs of Steel plates.

Standard : ASTM F2413-18
ASTM F2913-17
Size : US 9
Buyer's Name : --
Ref. No : X111081/X1100N81
Brand : SAFETY JOGGER
Manufacturer : CORTINA
Colour : Black
Vendor : --
Supplier : --
P.O. No. : --
Ref. : Men Casual Safety Shoes with outsole Mould M2330 PU+Rubber
Country Of Origin : --
Goods Exported To : Belgium/U.S.A.
Date Received/Date Test Started: Jun 10, 2019
Date Final Information Confirmed: Jun 13, 2019

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



- 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)	ASTM F2413-18 Requirement	Pass/Fail
	Interior Height Clearance		
Left:	16.0 mm	≥ 12.7 mm	Pass
Right:	17.1 mm	≥ 12.7 mm	Pass
Left:	17.6 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:	21.5 mm	≥ 12.7 mm	Pass
Right:	19.9 mm	≥ 12.7 mm	Pass
Right:	20.7 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
Sample 1	Left	$1.6 \times 10^7 \Omega$	*	Pass
	Right	$1.7 \times 10^7 \Omega$	*	Pass
	One Pair	$1.0 \times 10^7 \Omega$	*	Pass
Sample 2	Left	$2.0 \times 10^7 \Omega$	*	Pass
	Right	$1.7 \times 10^7 \Omega$	*	Pass
	One Pair	$1.4 \times 10^7 \Omega$	*	Pass
Sample 3	Left	$1.8 \times 10^7 \Omega$	*	Pass
	Right	$2.0 \times 10^7 \Omega$	*	Pass
	One Pair	$1.3 \times 10^7 \Omega$	*	Pass

Remark: * = SD 35: $1 \times 10^6 \Omega \sim 3.5 \times 10^7 \Omega$



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)	<u>ASTM F2413-18 Requirement</u>	<u>Pass/Fail</u>
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
Left:	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 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
Left:	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, 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 (#)	0.52
				Forward Flat Slip (#)	0.60
	Steel Floor	Glycerine	Forward Heel Slip (#)	0.22	
			Forward Flat Slip (#)	0.41	

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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