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TEST REPORT



中国认可  
国际互认  
检测  
TESTING  
CNAS L0220

Number: GZHT91215867

Date: Sep 26, 2023

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

Sample Description:

Two (2) groups of submitted samples said to be:

(A) Three (3) pairs of Men's lace up safety shoes in Brown

(B) Four (4) pairs of Non metallic Anti-penetration insert soles.

Standard : ASTM F2413-18

ASTM F3445-21

Size : US 9

Buyer's Name : CORTINA

Ref. No : X530 EH/SI320013A

Brand : SAFETY JOGGER

Manufacturer : CORTINA

Colour : Brown

Vendor : --

Supplier : --

P.O. No. : --

Ref. : Sole: PU+Rubber

Insert Plate: SJ FLEX Composite Insert(EH)

Toe Cap: SJ Composite toecap 604

Upper: Brown Crazy Horse Cow Leather

Vamp Lining: Black/Grey Polyester Mesh with Membrane

Quarter Lining: Black/Grey Polyester Mesh with Membrane

Seat Region Lining: Black/Grey Polyester Mesh with Membrane

Insole: SJ FLEX Composite Insert(EH) covering with Black/Grey Polyester Mesh with Membrane

Collar: Dark Brown WI Sombo Polyester

Tongue: Dark Brown WI Sombo Polyester

Insock: Black SJ BK Polyester mesh+SJFOAM(PU)

Country Of Origin : CHINA

Goods Exported To : EU/US

Date Received/Date Test Started : Sep. 21, 2023

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](mailto:gzfootwear@intertek.com)

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliang Dong

Senior Lab Manager



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/ lynnyang

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

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检验检测专用章

(6)

- 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:	19.0 mm	≥ 12.7 mm	Pass
Right:	19.5 mm	≥ 12.7 mm	Pass
Left:	20.1 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:	23.5 mm	≥ 12.7 mm	Pass
Right:	23.4 mm	≥ 12.7 mm	Pass
Right:	24.1 mm	≥ 12.7 mm	Pass

- 3 Electric Hazard Resistant Footwear (EH) (ASTM F2412-18a, 9, Conditioned At 22 °C And 50 % RH For 24 h And Testing Performed At The Same Conditions)

	(A)	Leakage Current	ASTM F2413-18 Requirement	Pass/Fail
Left:		0.1 mA	*	Pass
Right:		0.1 mA	*	Pass
Left:		0.1 mA	*	Pass

Remark: \* = No Current Flow Or Leakage Current In Excess of 1.0 mA Under The Application Of 18 000 V At 60 Hz AC For 1 Minute.

- 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.)

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

Remark: \* = The Test Pin Does Not Visually Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1200 N.

- 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
Right:	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  $1.5 \times 10^6$  Flexes.

6 Slip Resistance (ASTM F2913-19)

Conditioning Test Specimen		Test Condition	
Temperature	(23 ± 2) °C	Atmosphere	(23 ± 2) °C, (50 ± 5)% RH
Relative Humidity	(50 ± 5)% RH	Test Surface	Flat Unglazed Clay Quarry Tile
Period	At Least 3 Hours	Vertical Force	500 N

(A)

Size	Sequence	Conditions	Modes	Results (COF)	ASTM F3445-21 Requirement	Pass/Fail
9 (Left)	Dry Then Wet	Dry	Forward Heel Slip	0.90	Min. 0.40	Pass
			Backward Forepart Slip	0.81	Min. 0.40	Pass
		Wet	Forward Heel Slip	0.76	Min. 0.40	Pass
			Backward Forepart Slip	0.70	Min. 0.40	Pass
9 (Right)	Wet Then Dry	Wet	Forward Heel Slip	0.76	Min. 0.40	Pass
			Backward Forepart Slip	0.70	Min. 0.40	Pass
		Dry	Forward Heel Slip	0.89	Min. 0.40	Pass
			Backward Forepart Slip	0.80	Min. 0.40	Pass
9 (Left)	Dry Then Wet	Dry	Forward Heel Slip	0.91	Min. 0.40	Pass
			Backward Forepart Slip	0.83	Min. 0.40	Pass
		Wet	Forward Heel Slip	0.77	Min. 0.40	Pass
			Backward Forepart Slip	0.70	Min. 0.40	Pass

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 Subjected 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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**Remark:**

1. As Requested by the Applicant, For Details Refer to Attached Page (5).
2. All the tested item are tested under the standard condition.
3. The report is valid with commission test only for the test samples in the case of delivering samples by clients.