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TEST REPORT



中国认可
国际互认
检测
TESTING
CNAS L0220

Number: GZHT91247968

Date: Mar 28, 2024

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

Attn: REBECCA/JENNY

Sample Description:

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

- (A) Three (3) pairs of Injection lace up safety ankle shoes in Black
- (B) Four (4) pairs of Injection lace up low cut safety shoes in Black
- (C) Five (5) pairs of Anti-penetration insert soles.

Standard : ASTM F2413-18
ASTM F3445-21

Size : US 9

Buyer's Name : CORTINA

Ref. No : VALLIS/MONTIS

Brand : SAFETY JOGGER

Manufacturer : CORTINA

Colour : Black

Vendor : --

Supplier : --

P.O. No. : --

Ref. : Sole: PU+PU

Insert Plate: SJ FLEX Composite Insert

Toe Cap: SJ Composite Toecap ZL604

Upper: Black SJ Nubuck Action Leather

Vamp Lining: Black NWL FABRIC

Quarter Lining: Grey SJ BK Mesh

Seat Region Lining: Grey SJ BK Mesh

Insole: SJ FLEX Composite Insert

Collar: Black SJ Neighbor Mesh

Tongue: Black SJ Nubuck Action Leather

Insock: Dark Grey Polyester Mesh + SJFOAM2 Industrial(PU)

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

Guiliang Dong
Senior Lab Manager



MI / lynnyang

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
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检验检测专用章

SHENZHEN BRANCH

(6)



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Number: GZHT91247968

Country Of Origin : --
Goods Exported To : EU/US
Date Received/Date Test Started : Mar. 20, 2024
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.
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Senior Lab Manager



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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:	22.3 mm	≥ 12.7 mm	Pass
Right:	22.6 mm	≥ 12.7 mm	Pass
Left:	22.5 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:	27.6 mm	≥ 12.7 mm	Pass
Right:	27.6 mm	≥ 12.7 mm	Pass
Right:	27.5 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	$4.9 \times 10^6 \Omega$	*
	Right	$7.5 \times 10^6 \Omega$	*
	One Pair	$3.5 \times 10^6 \Omega$	*
Sample 2	Left	$5.8 \times 10^6 \Omega$	*
	Right	$7.8 \times 10^6 \Omega$	*
	One Pair	$3.6 \times 10^6 \Omega$	*
Sample 3	Left	$6.3 \times 10^6 \Omega$	*
	Right	$7.9 \times 10^6 \Omega$	*
	One Pair	$3.8 \times 10^6 \Omega$	*

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



- 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)	Perforation Point			ASTM F2413 Requirement	Pass/Fail
	Test Point 1	Test Point 2	Test Point 3		
Left	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1200 N	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1200 N	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1200 N	Min. 1 200 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	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1200 N	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1200 N	Min. 1 200 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	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1200 N	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1200 N	Min. 1 200 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 Corrosion Resistance For Puncture Resistant Plates (ASTM F2412-18a, 11.8 & ASTM B117, 5% NaCl Solution For 24 Hours)

(C)	ASTM F2413-18 Requirement	Pass/Fail
Left: No Sign Of Delamination	*	Pass
Right: No Sign Of Delamination	*	Pass
Left: No Sign Of Delamination	*	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)	ASTM F2413-18 Requirement	Pass/Fail
Left:	No Signs Of De-lamination Of Layers After 1.5 x 10 ⁶ Flexes	*	Pass
Right:	No Signs Of De-lamination Of Layers After 1.5 x 10 ⁶ Flexes	*	Pass
Right:	No Signs Of De-lamination Of Layers 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 F2913-19)

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	0.61	Min. 0.40	Pass
			Backward Forepart Slip	0.55	Min. 0.40	Pass
		Wet	Forward Heel Slip	0.50	Min. 0.40	Pass
			Backward Forepart Slip	0.43	Min. 0.40	Pass
9 (Right)	Wet Then Dry	Wet	Forward Heel Slip	0.52	Min. 0.40	Pass
			Backward Forepart Slip	0.44	Min. 0.40	Pass
		Dry	Forward Heel Slip	0.64	Min. 0.40	Pass
			Backward Forepart Slip	0.56	Min. 0.40	Pass
9 (Left)	Dry Then Wet	Dry	Forward Heel Slip	0.66	Min. 0.40	Pass
			Backward Forepart Slip	0.55	Min. 0.40	Pass
		Wet	Forward Heel Slip	0.52	Min. 0.40	Pass
			Backward Forepart Slip	0.45	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 (S).
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.