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TEST REPORT



中国认可
国际互认
检测
TESTING
CNAS L0220

Number: GZHT91285031

Date: Sep 13, 2024

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 boots in Black.
(B) Five (5) pairs of SJ FLEX composite inserts in White.
Standard : ASTM F2413-24
Size : Men US#9
Buyer's Name : CORTINA
Ref. No : HEKLA WINTER S7S TLS (HEKLA7SHT)
Brand : SAFETY JOGGER
Manufacturer : CORTINA
Colour : Black
Vendor : --
Supplier : --
P.O. No. : --
Ref. : Half-Knee Boot in Black
Sole: Black Rubber
Insert Plate: SJ FLEX composite insert
Toe Cap: SJ Non-metallic Nano Carbon Toecap NC722
Upper: Black IN BUFFALO TANGO S3
Vamp/Quarter/Seat Region Lining: Black SJ-Tex Membrane
Insole: SJ Flex Composite Insert Covered with Black SJ-Tex Membrane
Collar: Black SJ Super Fabric
Tongue: Black IN BUFFALO TANGO S3+ Black SJ Super Fabric
Insock: Grey Felt+SJFOAM2W Industrial
Country Of Origin : --
Goods Exported To : E.U./U.S.
Date Received/Date Test Started: Sep 06, 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.
Guangzhou Branch

Guiliang Dong
Senior Lab Manager



wx / jackiezheng

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
深圳天祥质量技术服务有限公司广州分公司
Room 401/501/601/801/901/1003, No. 8, East BaoYing Road, Huangpu District, Guangzhou 510730
广州市黄埔区保盈东路8号401房、501房、601房、801房、901房、1003房
Tel: +86 20 2820 9114 Postcode: 510730



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- 1 Protective Toe Impact Resistance (I) (ASTM F2412-24, 5, Impact Energy: 101.7 J (75 ft-Ib), Testing Performed At 22°C And 50% RH)

(A)		<u>ASTM F2413-24 Requirement</u>	<u>Pass/Fail</u>
	Interior Height Clearance		
Left:	20.7 mm	≥ 12.7 mm	Pass
Right:	20.6 mm	≥ 12.7 mm	Pass
Left:	22.8 mm	≥ 12.7 mm	Pass

- 2 Protective Toe Compression Resistance (C) (ASTM F2412-24, 6, Compressive Force: 11 121 N (2 500 lbf), Testing Performed At 22°C And 50% RH)

(A)		<u>ASTM F2413-24 Requirement</u>	<u>Pass/Fail</u>
	Interior Height Clearance		
Left:	26.6 mm	≥ 12.7 mm	Pass
Right:	26.2 mm	≥ 12.7 mm	Pass
Right:	26.3 mm	≥ 12.7 mm	Pass

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

(B)	Perforation Point			ASTM F2413-24 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 1 200 N	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1 200 N	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1 200 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 1 200 N	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1 200 N	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1 200 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 1 200 N	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1 200 N	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 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 After An Applied Force Of 1 200 N.



4 Flex Resistance For Puncture Resistant Devices (ASTM F2412-24, 11.7 & CSA Z195-14, 6.3.2)

(B)		<u>ASTM F2413-24 Requirement</u>	<u>Pass/Fail</u>
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
Left:	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.

5 Corrosion Resistance For Puncture Resistant Plates (ASTM F2412-24, 11.8 & ASTM B117-19, 5% NaCl Solution For 24 Hours)

(B)		<u>ASTM F2413-24 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 Static Dissipative Footwear (SD) (ASTM F2412-24, 10, Conditioned At 22°C And 50% RH For 24 h And Testing Performed At The Same Conditions)

(A)			<u>ASTM F2413-24 Requirement</u>	<u>Pass/Fail</u>
Sample 1	Left	$1.5 \times 10^7 \Omega$	*	Pass
	Right	$1.7 \times 10^7 \Omega$	*	Pass
	One Pair	$1.1 \times 10^7 \Omega$	*	Pass
Sample 2	Left	$3.2 \times 10^7 \Omega$	*	Pass
	Right	$2.2 \times 10^7 \Omega$	*	Pass
	One Pair	$2.0 \times 10^7 \Omega$	*	Pass
Sample 3	Left	$2.0 \times 10^7 \Omega$	*	Pass
	Right	$1.7 \times 10^7 \Omega$	*	Pass
	One Pair	$1.2 \times 10^7 \Omega$	*	Pass

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





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.