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TEST REPORT



中国认可
国际互认
检测
TESTING
CNAS L0220

Number: GZHT90934970

Date: Nov 22, 2019

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

Attn: REBECCA/ROCK

Sample Description:

Two (2) groups of submitted samples said to be:
(A) Three (3) pairs of Men's pull on safety high boots in Yellow
(B) Five (5) pairs of Steel plates.

Standard	:	ASTM F2413-18 ASTM F2913-19
Size	:	US 9
Buyer's Name	:	--
Ref. No	:	APOLLO
Brand	:	SAFETY JOGGER
Manufacturer	:	CORTINA
Colour	:	YELLOW
Vendor	:	--
Supplier	:	--
P.O. No.	:	--
Ref.	:	Men Casual High Safety with outsole Mould M1645 PVC Insert Plate: Steel Toe Cap: Steel
Country Of Origin	:	China
Goods Exported To	:	U.S.A./Belgium
Date Received/Date Test Started:	:	Nov. 12, 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:
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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:	26.2 mm	*	Pass
Right:	25.5 mm	*	Pass
Left:	24.0 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:	27.0 mm	*	Pass
Right:	28.3 mm	*	Pass
Right:	28.1 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)		<u>ASTM F2413-18 Requirement</u>	<u>Pass/Fail</u>
Sample 1	Left	$7.2 \times 10^6 \Omega$	*	Pass
	Right	$6.6 \times 10^6 \Omega$	*	Pass
	One Pair	$4.0 \times 10^6 \Omega$	*	Pass
Sample 2	Left	$5.4 \times 10^6 \Omega$	*	Pass
	Right	$5.2 \times 10^6 \Omega$	*	Pass
	One Pair	$3.1 \times 10^6 \Omega$	*	Pass
Sample 3	Left	$6.7 \times 10^6 \Omega$	*	Pass
	Right	$5.9 \times 10^6 \Omega$	*	Pass
	One Pair	$4.2 \times 10^6 \Omega$	*	Pass

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.)

	(B)	<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 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)

	(B)	<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)

	(B)	<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
Right:	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 F2913-19, Vertical Force: 500 N, 22°C, 50% R.H):

Sample	Size	Test Floor	Lubricant	Modes	Results
(A)	9 (Left)	Eurotile 2	NaLS	Forward Heel Slip (#)	0.33
				Forward Flat Slip (#)	0.36
		Steel Floor	Glycerine	Forward Heel Slip (#)	0.05
				Forward Flat Slip (#)	0.12

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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