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TEST REPORT



中国认可
国际互认
检测
TESTING
CNAS L0220

Number: GZHT90845112

Date: Nov 29, 2018

Applicant: CORTINA N.V.
MEERSBLOEM-MELDEN 42,
9700 OUDENAARDE,BELGIUM
Attn: PETER DE MEZURE

Sample Description:

Two (2) groups submitted samples said to be:
(A) Three (3) pairs of Men's Cemented lace up safety boots in Black
(B) Three (3) pairs of Non-metallic insoles

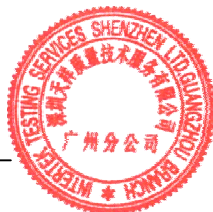
Standard : ASTM F2413-18
ASTM F2913-17
Size : US 9 (EUR 42)
Buyer's Name : Cortina NV
Ref. No : TROOPER
Brand : Safety jogger
Manufacturer : Cortina NV
Colour : --
Vendor : --
Supplier : --
P.O. No. : --
Ref. : Men Casual Outdoor High with M2463 PHYLON/RUBBER sole (SJ FLEX/COMP)
Country Of Origin : --
Goods Exported To : --
Date Received/Date Test Started: Nov. 22, 2018/Nov. 14, 2018
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

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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 (±2 °C) And 50 % RH (± 5 %))

	(A)	ASTM F2413-18 Requirement	Pass / Fail
	Interior Height Clearance		
Left:	12.8 mm	≥ 12.7 mm	Pass
Right:	13.3 mm	≥ 12.7 mm	Pass
Left:	12.8 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 (±2 °C) And 50 % RH (± 5 %))

	(A)	ASTM F2413-18 Requirement	Pass/Fail
	Interior Height Clearance		
Left:	27.6 mm	≥ 12.7 mm	Pass
Right:	26.2 mm	≥ 12.7 mm	Pass
Right:	26.5 mm	≥ 12.7 mm	Pass

- 3 Static Dissipative Footwear (SD) (ASTM F2412-18a, 10, Conditioned At 22°C (±2°C) And 50 % RH (± 5 %) For 24 h And Testing Performed At The Same Conditions.)

	(A)	ASTM F2413-18 Requirement	Pass/Fail
Sample 1	Left	$3.6 \times 10^7 \Omega$	*
	Right	$2.3 \times 10^7 \Omega$	*
	One Pair	$2.0 \times 10^7 \Omega$	*
Sample 2	Left	$3.5 \times 10^7 \Omega$	*
	Right	$2.6 \times 10^7 \Omega$	*
	One Pair	$1.4 \times 10^7 \Omega$	*
Sample 3	Left	$1.6 \times 10^7 \Omega$	*
	Right	$9.5 \times 10^6 \Omega$	*
	One Pair	$7.8 \times 10^6 \Omega$	*

Remark: * = SD 100 : $1 \times 10^6 \Omega \sim 1 \times 10^8 \Omega$



4 Puncture Resistance Footwear (PR) (ASTM F2412-18a, 11, Conditioned At 22°C (±2°C) And 50 % RH (± 5 %) 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
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

Remark: * = The Test Pin Does Not Visually Penetrate Beyond The Face Of The Material Nearest The Foot.

5 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 De-lamination Of Layers Or Cracking After 1.5 x 10 ⁶ Flexes.	*	Pass
Right:	No Signs Of De-lamination Of Layers Or Cracking After 1.5 x 10 ⁶ Flexes.	*	Pass
Left:	No Signs Of De-lamination Of Layers Or 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.



6 Slip Resistance (ASTM F2913-17, Vertical Force: 500 N, 23°C, 50% R.H):

Sample	Size	Test Floor	Lubricant	Modes	Results
(A)	9 (Right)	Eurotile 2	NaLS	Forward Heel Slip	0.52
				Forward Flat Slip	0.58
		Steel Floor	Glycerine	Forward Heel Slip	0.17
				Forward Flat Slip	0.16

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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