



Number: GZHT91153853

Date: Nov 14, 2022

Applicant: CORTINA N.V.

> MEERSBLOEM-MELDEN 42, 9700 OUDENAARDE, BELGIUM

Attn: REBECCA/JENNY

Sample Description:

Four (4) groups of submitted samples said to be:

- (A) Three (3) pairs of Men's safety shoes in Black
- (B) One (1) pair of Men's safety shoes in Grey
- (C) One (1) pair of Men's safety shoes in Navy
- (D) Four and a half (4.5) pairs of steel plates.

Standard : ASTM F2413-18

ASTM F3445-21

Size US 9 Buyer's Name **CORTINA**

Ref. No **ECOFITZ S1P LOW** Brand SAFETY JOGGER

Manufacturer **CORTINA**

Colour Black/Grey/Navy

Vendor Supplier P.O. No.

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliang Dong

Senior Lab Manager

Page 1 Of 7

AY / karrieliu



Number: GZHT91153853

Ref. : Black/Grey/Navy Safety Low shoe

Sole: Black PU/PU

Insert Plate: SJ Steel Penetration Insert Plate

Toe Cap: Steel Toecap 459

Upper: Black Polyester Recycled Flyknit Fabric Vamp Lining: Black Polyester Non-woven

Quarter Lining: Black Polyester Recycled BK Mesh Seat Region Lining: Black Polyester Recycled BK Mesh

Insole: Grey Polyester Non-woven

Collar: Black Polyester Recycled Flyknit Fabric Tongue: Black Polyester Recycled Flyknit Fabric

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

Country Of Origin **CHINA** Goods Exported To EU/US

Date Received/Date Test Started: Nov 01, 2022

Date Final Information Confirmed: --

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at qzfootwear@intertek.com

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliang Dong

Senior Lab Manager

Page 2 Of 7





Total Quality. Assured. **TEST REPORT**

Tests Conducted (As Requested By The Applicant)

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:	18.2 mm	*	Pass
Right:	17.8 mm	*	Pass
Left:	15.7 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℃ And 50% RH)

			(A)	ASTM F2413-18 Requirement	Pass/Fail
			Interior Height Clearance	•	
Left:			21.6 mm	*	Pass
Right:			23.4 mm	*	Pass
Right:			23.8 mm	*	Pass
Remark:	* =	≥ 12.7 mm			

/ karrieliu

Page 3 Of 7



Total Quality. Assured. **TEST REPORT**

Tests Conducted (As Requested By The Applicant)





Number: GZHT91153853

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
	Left	2.1×10^7 Ω	*	Pass
Sample 1	Right	3.3×10^7 Ω	*	Pass
	One Pair	1.6×10 ⁷ Ω	*	Pass
	Left	1.3×10^7 Ω	*	Pass
Sample 2	Right	3.5×10^7 Ω	*	Pass
	One Pair	1.2×10^7 Ω	*	Pass
	Left	$1.6\times10^7~\Omega$	*	Pass
Sample 3	Right	3.3×10^7 Ω	*	Pass
	One Pair	1.2×10^7 Ω	*	Pass

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

Puncture Resistance Footwear (PR) (ASTM F2412-18a, 11, Conditioned At 22°C And 50% RH For 24 h And 4 Testing Performed At The Same Conditions)

	(D)	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
Right:	The Test Pin Did Not Penetrate Beyond The Face Of The Material Nearest The Foot After An Applied Force Of 1200 N.	*	Pass

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

/ karrieliu

Page 4 Of 7

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch 深圳天祥质量技术服务精限公司广州分公司

Room 02, 1-8/F. & Room 01, E101/E201/E301/E401/E501/E601/E701/E801, No.7-2, Caipin Road, Guangzhoù Science City, GETDD, Guangzhou, Guangdong, China 广州经济技术开发区科学研制频路 7 景之二第 1 8 是 02 房、01 房 101、E201、E301、Adr.、E501、E603、1201、E801

Tel: +86 208213 9001 Pax: 146 20 8208 9909 Postcode: 510663







Number:

GZHT91153853

Total Quality. Assured. **TEST REPORT**

Tests Conducted (As Requested By The Applicant)

5 Corrosion Resistance For Puncture Resistant Plates (ASTM F2412-18a, 11.8 & ASTM B117, 5% NaCl Solution For 24 Hours)

	(D)	<u>ASTM F2413-18</u> <u>Requirement</u>	Pass/Fail
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)

		(D)	<u>ASTM F2413-18</u>	Pass/Fail
		` ,	<u>Requirement</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 Af	ter 1.5 x 10 ⁶ Flexes.	



Total Quality. Assured. **TEST REPORT**

Tests Conducted (As Requested By The Applicant)



Number: GZHT91153853

7 Slip Resistance (ASTM F2913-19)

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

Sample	Size	Sequence	Conditions	Modes	Results (COF)	ASTM F3445-21 Requirement	Pass/Fail
			Dry	Forward Heel Slip	0.68	Min. 0.40	Pass
(A)	9	Dry Then		Backward Forepart Slip	0.54	Min. 0.40	Pass
	(Left)	Wet	Wet	Forward Heel Slip	0.56	Min. 0.40	Pass
				Backward Forepart Slip	0.44	Min. 0.40	Pass
			Wet	Forward Heel Slip	0.48	Min. 0.40	Pass
	9	Wet Then		Backward Forepart Slip	0.43	Min. 0.40	Pass
	(Right)	Dry	Dry	Forward Heel Slip	0.69	Min. 0.40	Pass
				Backward Forepart Slip	0.56	Min. 0.40	Pass
			Dry	Forward Heel Slip	0.68	Min. 0.40	Pass
	9	Dry Then		Backward Forepart Slip	0.56	Min. 0.40	Pass
	(Right)	Wet	Wet	Forward Heel Slip	0.49	Min. 0.40	Pass
				Backward Forepart Slip	0.44	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.

/ karrieliu

Page 6 Of 7 Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量技术服务精限公司广州分公司 Room 02, 1-8/F. & Room 01, E101/E201/E301/E401/E501/E601/E701/E801, No.7-2, Caipin Road, Guangzhoù Science City, GETDD: Guangzhoù, Guangdong, China 广州经济技术开发区科学研制频路 7 号 二第 1 包含 房、01 房 101、E201、E301、Adv.、E501、E603、1 201、E801

Tel: +86 208213 9001 Pax: 146 20 8208 9909 Postcode: 510663



Tests Conducted (As Requested By The Applicant)



Number: GZHT91153853





End Of Report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. No copy of the test report(except for full text copy) shall be made without the written approval by Intertek.

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.

/ karrieliu

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量技术服务病限公司广州分公司 Room 02, 1-8/F. & Room 01, E101/E201/E301/E401/E501/E601/E701/E801, No.7-2, Caipin Road, Guangzhoù Science City, GETDD, Guangzhou, Guangdong, China 广州经济技术开发区科学研制频路 7 景之二第 1 8 是 02 房、01 房 101、E201、E301、Adr.、E501、E603、1201、E801

Tel: +86 208213 9001 Pax: 146 20 8208 9909 Postcode: 510663