

Applicant: CORTINA NV  
MEERSBLOEM- MELDEN 42,  
9700 OUDENAARDE, BELGIUM

Attn: Peter De Mezure

**THIS REPORT SUPERSEDES TEST REPORT NO.SL92419293021701FW DATE: 2024-05-21 ISSUED BY SGS (Guangzhou), ORIGINAL REPORT IS INVALID FROM TODAY. UPDATED SAMPLE INFORMATION.**

The following products were identified on behalf of the client as:

Group Reference : BESTRUN METALFREE S3  
BESTBOY METALFREE S3  
Model(s) Description : BESTRUN METALFREE S3 Low shoes in Black  
BESTBOY METALFREE S3 Ankle Boot in Black

The following sample(s) was/were submitted for testing:

Sample Description : (A) Three Pairs of Low shoes in black  
(B) One Pair of Ankle Boot in black  
(C) Five Pairs of SJ FLEX Composite Insert

Buyer's Name : CORTINA  
Brand : SAFETY JOGGER  
Manufacturer : CORTINA  
Size : Men's US9  
Model Name : (A)BESTRUN METALFREE S3  
(B)BESTBOY METALFREE S3  
Toecap : SJ Composite Toecap ZL604  
Puncture Resistant Device : SJ FLEX Composite Insert  
Sole : Black PU Midsole + Grey PU Outsole  
Upper : Black Embossed Cow Leather  
Collar : Black Best PU  
Tongue : Black Best PU  
Vamp Lining : White Polyester Non-Woven  
Quarter Lining : Grey Polyester SJ BK Mesh  
Counter Lining : Grey Polyester SJ BK Mesh  
Tongue Lining : Blue Polyester SJ BK Mesh  
Insole : SJ FLEX Composite Insert  
In-sock (foot-bed) : Dark Grey Polyester Mesh + SJ FOAM3 Industrial (PU)  
Standard : ASTM F2413-18 /ASTM F3445-21



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CNAS-L0167

Test Report

SL92419293021701FW-1

Date: June 01, 2024 Page 2 of 9

Sample Receiving Date : May 15, 2024  
Testing Period : May 15, 2024 ~ May 21, 2024  
Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Asan Huang (Approved Signatory)

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Member of the SGS Group (SGS SA)

Conclusion	A US 9#	C	Remark
Impact Resistance	P	-	
Compression Resistance	P	-	
Static Dissipative	P	-	
Puncture Resistance	-	P	
Flexing Resistance For Puncture Resistance Plates	-	P	
Corrosion Resistance For Non-metallic Puncture Resistance Plates	-	P	
Slip Resistance	P	-	

Remark(s) : P = Meet Client's Requirement.  
F = Below Client's Requirement.  
# = No Specified Requirement.  
NA = Not Applicable.



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Test Result

**Personal Protective Equipment - Safety Footwear**  
ASTM F2413-18

**Impact Resistance**

(ASTM F2412-18a, Clause 5; Impact energy: 101.75 J)

**A US 9#(Left)**

	No. 1	No. 2	Requirement
Internal Height Clearance(mm)	22.4	22.7	Min. 12.7 mm

**Conclusion Pass**

**A US 9#(Right)**

	No. 3	Requirement
Internal Height Clearance(mm)	22.5	Min. 12.7 mm

**Conclusion Pass**

**Compression Resistance**

(ASTM F2412-18a, Clause 6; Compression load: 2500 lbf)

**A US 9#(Left)**

	No. 1	Requirement
Internal Height Clearance(mm)	25.8	Min. 12.7 mm

**Conclusion Pass**

**A US 9#(Right)**

	No. 2	No. 3	Requirement
Internal Height Clearance(mm)	25.3	25.7	Min. 12.7 mm

**Conclusion Pass**



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**Static Dissipative**

(ASTM F2412-18a, Clause 10; Test Voltage: 50 V)

**A US 9#**

	No. 1	No. 2	No. 3	Average	Requirement
Electrical Resistance (Left)(MΩ)	8.8	8.6	13.0	10.1	SD 35: 1 ~ 35 MΩ
Electrical Resistance (Right)(MΩ)	10.0	9.0	10.4	9.8	SD 35: 1 ~ 35 MΩ
Electrical Resistance (One Pair)(MΩ)	7.0	5.6	7.2	6.6	SD 35: 1 ~ 35 MΩ

**Conclusion**

**Pass**

**Puncture Resistance**

(ASTM F2412-18a, Clause 11.5)

**C**

	No. 1	No. 2	No. 3	Requirement
Assessment (Specimen 1)	No visually penetration	No visually penetration	No visually penetration	See Remark
Assessment (Specimen 2)	No visually penetration	No visually penetration	No visually penetration	See Remark
Assessment (Specimen 3)	No visually penetration	No visually penetration	No visually penetration	See Remark

**Conclusion**

**Pass**

Remark: The tip of the test pin does not visually penetrate beyond the face of the material nearest the foot, after an applied force of 1200N

**Flexing Resistance For Puncture Resistance Plates**

(ASTM F2412-18a, Clause 11.7)

**C**

	No. 1	No. 2	No. 3	Requirement
Assessment	No visible signs of cracking	No visible signs of cracking	No visible signs of cracking	See Remark

**Conclusion**

**Pass**

Remark: The specimen shall show no visible signs of delamination of layers or cracking after 1.5 x 10<sup>6</sup> flexes.



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**Corrosion Resistance For Non-metallic Puncture Resistance Plates**

(ASTM F2412-18a, Clause 11.8; Concentration of salt solution: 5 %; Exposure period: 24 h in accordance with practice ASTM B117-19 (For non-Metallic))

**C**

	No. 1	No. 2	No. 3	Requirement
Assessment	No signs of de-lamination and deterioration	No signs of de-lamination and deterioration	No signs of de-lamination and deterioration	See Remark

**Conclusion**

**Pass**

Remark: No signs of de-lamination, or deterioration after exposure.



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**ASTM F3445**

ASTM F2913-19

**Slip Resistance**

(ASTM F2913-19; Lubricant: Distilled Water, Vertical Force: (500±25) N)

A US 9#-shoe 1-Right	Unit	Forepart	Heel part	Requirement
Clay Tile				
Tested Dry Then Wet				
Coefficient of Friction				-
Dry	-	0.53	0.64	Min.0.40
Wet	-	0.45	0.50	Min.0.40
<b>Conclusion</b>		<b>Pass</b>		
A US 9#-shoe 2-Left	Unit	Forepart	Heel part	Requirement
Clay Tile				
Tested Wet Then Dry				
Coefficient of Friction				-
Dry	-	0.58	0.73	Min.0.40
Wet	-	0.43	0.51	Min.0.40
<b>Conclusion</b>		<b>Pass</b>		
A US 9#-shoe 3-Right	Unit	Forepart	Heel part	Requirement
Clay Tile				
Tested Dry Then Wet				
Coefficient of Friction				-
Dry	-	0.58	0.71	Min.0.40
Wet	-	0.46	0.53	Min.0.40
<b>Conclusion</b>		<b>Pass</b>		

Remark:

- 1) The performance of slip resistance can be affected by surface roughness, presence of water, contaminants such as grease and other foreign materials, and floor surface wear over time.
- 2) Shoe Size: US 9



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### Sample Photo



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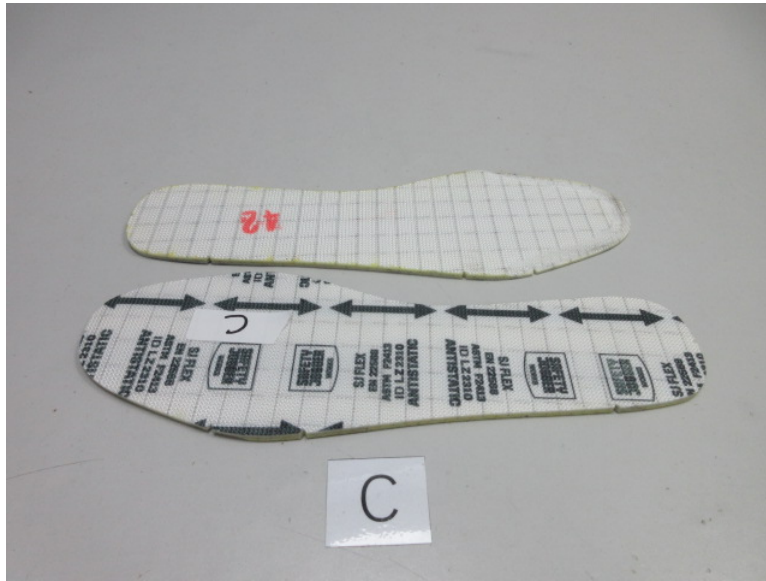
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Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

\*\*\*End of Report\*\*\*

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