



TEST REPORT

Report No.: HW20240816228R

Date: August 16, 2024

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Appendix 1 (Label)

Product Name: Safety shoes
Model No: FZ-163
Category: SBP
Manufacturer: Gaomi anbaill Shoes Co, Ltd
Address: 777 Jiankang Road (South), Mishui street, Gaomi City,
Weifang City, Shandong Province, China
MADE IN CHINA

*** END OF REPORT ***



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Applicant: Gaomi anballi Shoes Co, Ltd

Address: 777 Jiankang Road (South), Mishui street, Gaomi City, Weifang City, Shandong Province, China

Manufacturer: Gaomi anballi Shoes Co, Ltd

Address: 777 Jiankang Road (South), Mishui street, Gaomi City, Weifang City, Shandong Province, China

Sample Name: Safety shoes

Model No. : FZ-163

Date of Sample Received: August 9, 2024

Testing period: August 9, 2024 to August 16, 2024

Test Requested: Selected test(s) as requested by client

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Result Summary:

Testing requested	Result(s)
EN ISO 20345:2022 Personal protective equipment - Safety footwear	PASS

*****FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)*****

Written by:

Stella

Engineer: Stella Li

Date: August 16, 2024

Approved by:





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1) **Test Requested:**

Upper/Outsole Bond Strength (Whole Footwear)

Test Method:

With EN ISO 20344:2021(5.2)

Sample	Size	Result	Requirement	Comment
No.1	40	4.1 N/mm	*	PASS.

Remark: * = Min. 4.0 N/mm, If The Sole Was Torn, Min. 3.0 N/mm

Expanded Uncertainty: 0.10 N/mm, With k= 2 At 95% Confidence Level

2) **Test Requested:**

Impact Resistance of Safety Footwear

Test Method:

With EN ISO 20344:2021(5.4)

Test Condition:

Mass of Striker: (20±0.2) kg

Impact Energy: (200±4) J

Sample	Size	Result		Requirement	Comment.
		Left	Right		
No. 1	40	Left	15.8 mm	Min. 14.0 mm	PASS
		Right	15.8 mm	Min. 14.0 mm	PASS

Remark: # = In Addition, The Toecap Shall Not Develop Any Cracks Which Go Through The Material, i.e. Through Which Light Can Be Seen.

Expanded Uncertainty: 0.36(Urel), With k=1.96 At 95% Confidence Level.

3) **Test Requested:**

Compression Resistance of Safety Footwear

Test Method:

With EN ISO 20344:2021(5.5)



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Test Condition:

Compression Speed: (5±2) mm/min

Load: (15±0.1) kN

Sample	Size	Result		Requirement	Comment
		Left	Right		
No.1	40	18.2 mm	18.0 mm	Min. 14.0 mm	PASS
				Min. 14.0 mm	PASS

Expanded Uncertainty: 0.13 mm, With k= 1.96 At 95% Confidence Level.

4) Test Requested:

Tear Strength (Upper)

Test Method:

With EN ISO 20344:2021(6.3)

Sample	Size	Result		Requirement	Comment.
No.1	40	Mean Value	138.2 N	Min. 120 N	PASS

Expanded Uncertainty: 2.77 N, With k= 2.06 At 95% Confidence Level.

5) Test Requested:

Tear Strength (Outsole)

Test Method:

With EN ISO 20344:2021(8.3), ISO 34-1:2010, Method A

Sample	Size	Density	Result	Requirement	Comment
No.1	40	1.2 g/cm ³	9.2 kN/m	*	PASS

Remark: * = Density: > 0.9 g/cm³, Min. 8 kN/m



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Sample	Size	Result	Requirement	Comment
No.1	40	3.0 mm	Max. 4 mm (*)	PASS

Remark: * = Spontaneous Cracks Are Acceptable In The Following Circumstances.

- Only The Centre Of The Tread Area Shall Be Assessed For Cracking, i.e. Cracks Under The Toecap Zone Shall Be Ignored.
- Superficial Cracks Up To 0.5 mm Deep Shall Be Ignored.
- Soles Shall Be Deemed To Be Satisfactory If Cracks Are No Deeper Than 1.5 mm, No Longer Than 4 mm And No More Than Five In Number.

Expanded Uncertainty: 0.06 mm, With $k=1.96$ At 95% Confidence Level.

9) Test Requested:

Nail Penetration Resistance Of Penetration Resistant Inserts

Test Method:

With EN ISO 20344:2021(5.8.2), EN 12568:2010(7.2.1), 10mm/min

Sample	Size	Result		Requirement	Comment
No.1	40	Left	No Nail Penetration At 1,100 N	*	PASS
		Right	No Nail Penetration At 1,100 N	*	PASS

Remark: * = The Tip Of The Test Nail Shall Not Penetrate Through The Test Piece And Separation Of The Layers Shall Not Occur Before 1,100 N

10) Test Requested:

Multiple Flex Resistance Of Penetration Resistant Inserts

Test Method:

With EN ISO 20344:2021(5.12)

Sample	Size	Result		Requirement	Comment
No.1	40	Left	No Cracking After 1×10^6 Flexion Cycles	*	PASS
		Right	No Cracking After 1×10^6 Flexion Cycles	*	PASS

Remark: * = The Inserts Shall Exhibit No Visible Signs Of Cracking, Disintegration Or Delamination After Having Been Subjected To 1×10^6 Flexion Cycles

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Expanded Uncertainty: 0.32 kN/m, With $k= 2.26$ At 95% Confidence Level.

6) **Test Requested:**

Abrasion Resistance (Outsole)

Test Method:

With EN ISO 20344:2021(8.4)

Sample	Size	Density	Result	Requirement	Comment
No.1	40	1.2 g/cm ³	Relative Volume Loss: 134.0 mm ³	*	PASS

Remark: * = Density: > 0.9 g/cm³, Max. 150 mm³

Expanded Uncertainty: 1.76 mm³, With $k= 1.96$ At 95% Confidence Level

7) **Test Requested:**

Rigidity Test (Outsole)

Test Method:

With EN ISO 20344:2021(8.6)

Sample	Size	Result
No.1	40	> 50°

Conclusion: There's Need To Be Performed The Flexing Test

NOTE: Footwear Whose Angle Under The Applied Force Is Lower Than 45° From The Horizontal Is Not Subjected To The Flexing Test

8) **Test Requested:**

Flexing Resistance (Outsole)

Test Method:

With EN ISO 20344:2021(8.6)

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Specimen No	Model	Description
NO.1	FZ-163	Black safety shoes

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Photograph of Sample

