



# TEST REPORT

Report No.: HW20240816224R

Date: August 12, 2024

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**Applicant:** Gaomi anbaili Shoes Co, Ltd

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

**Manufacturer:** Gaomi anbaili Shoes Co, Ltd

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

**Sample Name:** Safety shoes

**Model No. :** FZ-357

**Date of Sample Received:** August 9, 2024

**Testing period:** August 9, 2024 to August 12, 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:



Manager: Jerson King

Date: August 16, 2024

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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.
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
No.1	40	Left	18.2 mm	Min. 14.0 mm	PASS
		Right	18.0 mm	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 <sup>3</sup>	9.2 kN/m	*	PASS

Remark: \* = Density: > 0.9 g/cm<sup>3</sup>, 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.

- a) Only The Centre Of The Tread Area Shall Be Assessed For Cracking, i.e. Cracks Under The Toecap Zone Shall Be Ignored.
- b) Superficial Cracks Up To 0.5 mm Deep Shall Be Ignored.
- c) 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 x 10 <sup>6</sup> Flexion Cycles	*	PASS
		Right	No Cracking After 1 x 10 <sup>6</sup> Flexion Cycles	*	PASS

Remark: \*= The Inserts Shall Exhibit No Visible Signs Of Cracking, Disintegration Or Delamination After Having Been Subjected To 1 × 10<sup>6</sup> 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 <sup>3</sup>	Relative Volume Loss: 134.0 mm <sup>3</sup>	*	PASS

Remark: \* = Density: > 0.9 g/cm<sup>3</sup>, Max. 150 mm<sup>3</sup>

Expanded Uncertainty: 1.76 mm<sup>3</sup>, 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-357	Black safety shoes

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## Photograph of Sample



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### Appendix 1 (Label)

Product Name: Safety shoes

Model No: **FZ-357**

Category: SBP

Manufacturer: Gaomi anbaili 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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