



Shenzhen Huawin Testing Certification Co., Ltd.

Add: 7F, Building A, Shenye U Center, No. 743, Zhoushi Road, Bao'an District, Shenzhen, China

Http://www.huawinlab.com E-mail: eng@huawinlab.com

TEST REPORT

Report No.: HW20240816268R

Date: August 16, 2024

Page 1 of 8

Applicant: Gaomi anbaoli Shoes Co, Ltd

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

Manufacturer: Gaomi anbaoli Shoes Co, Ltd

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

Sample Name: Safety shoes

Model No. : FZ-109

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)*****

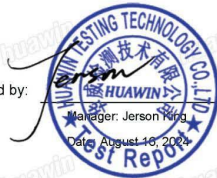
Written by:

Stella

Engineer: Stella Li

Date: August 16, 2024

Approved by:



This report is considered invalidated without the Special Seal for Inspection of the Shenzhen Huawin Testing Certification Co., Ltd. This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of Shenzhen Huawin Testing Certification Co., Ltd. this test report shall not be copied except in full and published as advertisement.



Shenzhen Huawin Testing Certification Co., Ltd.

Add: 7F, Building A, Shenye U Center, No. 743, Zhoushi Road, Bao'an District, Shenzhen, China

Http://www.huawinlab.com E-mail: eng@huawinlab.com

TEST REPORT

Report No.: HW20240816268R

Date: August 16, 2024

Page 2 of 8

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)

This report is considered invalidated without the Special Seal for Inspection of the Shenzhen Huawin Testing Certification Co., Ltd. This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of Shenzhen Huawin Testing Certification Co., Ltd. this test report shall not be copied except in full and published as advertisement.



TEST REPORT

Report No.: HW20240816268R

Date: August 16, 2024

Page 3 of 8

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 ³	9.2 kN/m	*	PASS

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

This report is considered invalidated without the Special Seal for Inspection of the Shenzhen Huawin Testing Certification Co., Ltd. This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of Shenzhen Huawin Testing Certification Co., Ltd. this test report shall not be copied except in full and published as advertisement.



Shenzhen Huawin Testing Certification Co., Ltd.

Add: 7F, Building A, Shenye U Center, No. 743, Zhoushi Road, Bao'an District, Shenzhen, China

Http://www.huawinlab.com E-mail: eng@huawinlab.com

TEST REPORT

Report No.: HW20240816268R

Date: August 16, 2024

Page 5 of 8

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

This report is considered invalidated without the Special Seal for Inspection of the Shenzhen Huawin Testing Certification Co., Ltd. This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of Shenzhen Huawin Testing Certification Co., Ltd. this test report shall not be copied except in full and published as advertisement.



TEST REPORT

Report No.: HW20240816268R

Date: August 16, 2024

Page 4 of 8

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)

This report is considered invalidated without the Special Seal for Inspection of the Shenzhen Huawin Testing Certification Co., Ltd. This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of Shenzhen Huawin Testing Certification Co., Ltd. this test report shall not be copied except in full and published as advertisement.



Shenzhen Huawin Testing Certification Co., Ltd.
Add: 7F, Building A, Shenye U Center, No. 743, Zhoushi Road, Bao'an District, Shenzhen, China
Http://www.huawinlab.com E-mail: eng@huawinlab.com

TEST REPORT

Report No.: HW20240816268R

Date: August 16, 2024

Page 6 of 8

Specimen No Model
NO.1 FZ-109

Description
Black safety shoes



Shenzhen Huawin Testing Certification Co., Ltd.
Add: 7F, Building A, Shenye U Center, No. 743, Zhoushi Road, Bao'an District, Shenzhen, China
Http://www.huawinlab.com E-mail: eng@huawinlab.com

TEST REPORT

Report No.: HW20240816268R

Date: August 16, 2024

Page 7 of 8

Photograph of Sample



This report is considered invalidated without the Special Seal for Inspection of the Shenzhen Huawin Testing Certification Co., Ltd. This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of Shenzhen Huawin Testing Certification Co., Ltd. this test report shall not be copied except in full and published as advertisement.



Shenzhen Huawin Testing Certification Co., Ltd.

Add: 7F, Building A, Shenyue U Center, No. 743, Zhoushi Road, Bao'an District, Shenzhen, China

Http://www.huawinlab.com E-mail: eng@huawinlab.com

TEST REPORT

Report No.: HW20240816268R

Date: August 16, 2024

Page 8 of 8

Appendix 1 (Label)

Product Name: Safety shoes

Model No: FZ-109

Category: SBP

Manufacturer: Gaomi anbailli Shoes Co, Ltd

Address: 777 Jiankang Road (South), Mishui street, Gaomi City,

Weifang City, Shandong Province, China

MADE IN CHINA

*** END OF REPORT ***