

Test Report

No.: HNFS2204000059FP

Date: APR.29.2022 Page 1 of 6

Firebox Australia Pty Ltd

Lot 5, 19 Balook Drive, Beresfield NSW 2322 Australia

Sample Description: FIRE EXTINGUISHER

Type/Style: Gecko FB4LF-500

Manufacturer: Power Saints Ltd

Supplier: Powder Saints Ltd

Country of Destination: Australia

Buyer: Firebox Australia Pty Ltd

End use application: Fire extinguishing

The above data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion.

Sample Receiving Date: 2022-04-20

Test Performing Date: 2022-04-25 TO 2022-04-27

Test Requested:

Electrical conductivity of extinguisher discharge perform on 1kV*、5kV*

Test Results:

No.	Test Items:	Test Results:	Note
01	Electrical conductivity of extinguisher discharge perform on 1kV*	PASS	When the extinguisher is in operation and the metallic plate is live, the current between the handle and earth, and between the nozzle and earth, shall be not more than 0.5mA at any time during the complete discharge of the fire extinguisher.*
02	Electrical conductivity of extinguisher discharge perform on 5kV*	FAIL	

*: Customer Requirements

--See attached sheet--

Signed for and on behalf of

Henan Tongjia Quality Testing And Technical Service Company Limited



Field Zhang/张琪

Approved signatory



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Test Report

No.: HNFS2204000059FP

Date: APR.29.2022 Page 2 of 6

1. INTRODUCTION

Test the current when water-based extinguishers use on energized electrical equipment fires.

2. SUMMARY

The 4 sets Water-based extinguishers test results

No.	Test voltage	Result
1#	1kV	0.07mA
2#	1kV	0.08mA
3#	5kV	0.55mA
4#	5kV	0.61mA



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3. SPECIMEN CONSTRUCTION AND INSTALLATION

3.1 Hang a metal plate of dimensions $(1\text{ m} \pm 25\text{ mm}) \times (1\text{ m} \pm 25\text{ mm})$, vertically from insulating supports. Connect the plate to a transformer so that an alternating voltage of 1 kV is established between the plate and earth, and then test the voltage of 5Kv.

3.2 Mount the extinguisher on an insulating support with the nozzle fixed 1 m from the centre of the plate, at right angles to it and directed towards it. Connect the extinguisher to the earth. In the case of an extinguisher with a hose, connect it to the earth by connection at the nozzle. For an extinguisher not fitted with a hose, the connection is at the handle.

4 TEST PROCEDURE

Measure any current flowing between the handle or the nozzle and earth and between earth and the extinguisher at any time during the complete discharge when the plate is live.



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5. TEST DATA AND OBSERVATION

No.	Test voltage	the current between the handle or the nozzle and earth	the current between earth and the extinguisher
1#	1kV	0.07mA	0.07 mA
2#	1kV	0.08 mA	0.08 mA
3#	5kV	0.55 mA	0.55 mA
4#	5kV	0.61 mA	0.61 mA

6. CONCLUSION

The extinguisher is in operation and the metallic plate is live, the current between the handle or the nozzle and earth and between earth and the extinguisher at any time during the complete discharge:

No.	Test voltage	Result
1#	1kV	0.07mA
2#	1kV	0.08mA
3#	5kV	0.55mA
4#	5kV	0.61mA

7. LIMITATION



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Test Report

No.: HNFS2204000059FP

Date: APR.29.2022 Page 5 of 6

The results only relate to the behaviour of the sample of the element of construction under the particular conditions of the test. They are not intended to be the sole criteria for assessing the potential fire performance of the element in use nor do they reflect the actual behaviour in fires.

The test results relate only to the sample tested. The performance of sample may change if different specifications.

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8. APPENDIX 1 PHOTO

APPENDIX 1 PHOTO



Fig.1 Sample



Fig.2 Sample



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Fig.3 Testing



Fig.4 Testing



Fig.5 1kV-Sample 1



Fig.6 1kV-Sample 2



Fig.7 5kV-Sample 3



Fig.8 5kV-Sample 4

SGS authenticate the photo on original report only
 End of Report



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