INSPEC

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Test Report

AS/NZS 1716 : 2012

Respiratory protective devices

Report no: 1.18.07.45

Client: Healthy Breath Limited
PO Box 62004
Sylvia Park
Auckland 1644
New Zealand

Client order: PO-0013

Order(s) received: 11 to 14 June 2018

Model(s): Meo X

Date(s) of tests: 20 to 24 July 2018

Signed: 

Issued: 26 July 2018

Heather Webb, Laboratory Supervisor

Conditions

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Unless stated otherwise, the testing is accredited under the laboratory's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AT-1933.

Tests marked ☒ are not included in our ISO/IEC 17025 accreditation.

Opinions, comments and interpretations expressed in this report are shown in italics.

Copies of INSPEC interpretations referenced in this report are available upon request.

Specimens will be disposed of four weeks from the date of this report, unless otherwise instructed.

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Product characteristics

Property	Characteristic
Model	Meo X
Device type	Half facepiece
Filter class claimed	Not specified

Submission details

Product	Quantity	Date received	INSPEC specimen no. (1F0359 +)
Meo X filtering half mask	4	4 July 2018	123 to 160

Procedures

The specimens detailed within the submissions above were used for the tests covered by this report.

Testing was performed in accordance with AS/NZS 1716: 2012, unless otherwise specified below. Reference should be made to the standard when reading this report.

Unless stated otherwise, specimens were tested in the condition as received by INSPEC.

The client requested testing to clauses 4.3.3, Simulated wear treatment, 4.3.4, Inhalation resistance, and 4.3.5, Filtering efficiency, only. No other clauses were assessed.

4.3.3 Pre-conditioning was conducted as defined in E5.6 of Appendix E. Additional elastic straps were used where required.

4.3.4 Testing was conducted to the method given in Appendix G.

4.3.5 Testing was conducted to the method given in Appendix I.

Result details

4.3 PERFORMANCE REQUIREMENTS

4.3.1 General

Evaluation of the performance requirements is as detailed below. Testing was conducted in the listed sequence.

4.3.3 Simulated wear treatment

Specimens 123, 124 and 125 were tested.

There were only ear straps on the specimens.

4.3.4 Inhalation resistance **Pass**

Specimen	Inhalation resistance (Pa)	
	at 30 l/min	at 95 l/min
123	29	95
124	27	93
125	28	96
Maximum permitted for P1	**60**	**210**
Maximum permitted for P2	**70**	**240**

4.3.5 Test of filter efficiency **Pass**

Specimen	Pre-conditioning	Penetration (%)
123	**4.3.3**	3.80
124		3.02
125		3.45
Maximum permitted for P1		**20.0**
Maximum permitted for P2		**6.0**

Estimates of the uncertainty of measurement

Clause	Test	Uncertainty
2.1.1	Assembled respirators	-
2.1.2	Materials	-
2.1.4	Shelf life	-
2.1.8	Avoidance of frictional sparks	-
2.1.9	Protection from flame	See Note 1
2.2.2	Total inward leakage	± 4.8%
3.1.1	General	-
3.2.1	Facial fit	-
3.2.2	Accumulated carbon dioxide	± 8.0%
3.2.4.2	Leakage	± 3.9 ml/min
3.2.5	Exhalation resistance	± 2.0%
3.2.6	Security of attachments	See Note 1
4.1	Design and construction	-
4.2	Classes	-
4.3.4	Inhalation resistance	± 4.2%
4.3.5	Filtering efficiency	± 4.8%
5.4.4	Inhalation resistance - Gas and vapour filters	± 4.2%

Note 1 The acceptance criterion for this test is a straightforward “Pass/Fail”, rather than a numerical value. Consequently, as there is no value to be reported, uncertainty has not been reported either.

Note 2 The uncertainty value is based on a standard uncertainty multiplied by a coverage factor k = 2, which provides for a confidence level of approximately 95%. Values expressed as a percentage (%) are relative.

Note 3 It should be noted that the above values have not been taken into account when making assessment to the pass/fail criteria.

ANNEX

This Annex comprises one section.

1. Photographs of the product tested. (1 page)

END OF REPORT

Healthy Breath Ltd
Meo X filtering half mask

INSPEC Testing Services' specimen number 1F0359 160 **23 July 2018**