Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

8856

Accredited to ISO/IEC 17025:2017

Breathe Safety Limited

Issue No: 019 **Issue date:** 14 March 2025

Unit 21 Aviation Business Park (East)
North East Sector
Christchurch
Dorset
BH23 6NE

Contact: Mr Max Diffey
Tel: +44 (0) 330 828 0891
E-Mail: Laboratory@breathesafety.com
Website: www.breathelaboratory.com

Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT	**Full Face Masks**	**EN 136:1998**
	Conditioning	Clause 8.2
	Visual Inspection	Clause 8.3
	Resistance to temperature	Clause 8.4
	Flammability	Clause 8.5
	Cleaning and disinfection	Clause 8.7
	Head Harness	Clause 8.8
	Connector	Clause 8.9
	Speech diaphragm	Clause 8.10
	Eyepieces/Visor	Clause 8.11
	Inhalation & Exhalation valves	Clause 8.12
	Leaktightness	Clause 8.13
	Carbon Dioxide content of inhaled air	Clause 8.14
	Breathing resistance	Clause 8.15
	Inward leakage	Clause 8.16
	Field of vision	Clause 8.17
	Practical Performance	Clause 8.18

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Self-contained open-circuit compressed air breathing apparatus with full face mask**	**EN 137:2006**
	Pre Conditioning	Clause 6.24, EN 13274-5:2001
	Visual Inspection	Clause 7.3
	Tests at Low temperature	Clause 7.4.1.1, EN 13274-3:2001
	Tests at High Temperature	Clause 7.4.1.2, EN 13274-3:2001
	Flame Engulfment	Clause 7.4.1.3
	Flammability	Clause 7.4.1.4, EN 13274-4:2020
	Practical Performance test – Low Temperature	Clause 7.4.2, EN 13274-2:2001
	Pressure Reducer	Clause 7.5
	Warning Device	Clause 7.6
	Leak tightness	Clause 7.7
	Water Immersion	Clause 7.8
	Strength of connections	Clause 7.9
	Resistance to collapse of breathing Hose	Clause 7.10
	Practical Performance	Clause 7.11, & EN13274-2:2019
	Breathing Resistance	Clause 7.12, & EN13274-3:2001
	Half masks and quarter masks	**EN 140:1999**
	Conditioning	Clause 7.2
	Visual Inspection	Clause 7.3
	Resistance to temperature	Clause 7.4
	Flammability	Clause 7.5
	Cleaning and Disinfection	Clause 7.6
	Head Harness (pull test)	Clause 7.7
	Connector	Clause 7.8
	Exhalation valve (flow test)	Clause 7.9
	Exhalation valve housing (pull test)	Clause 7.10
	Carbon dioxide content of inhalation air	Clause 7.11
	Breathing Resistance	Clause 7.12
	Inward leakage	Clause 7.13
	Practical Performance	Clause 7.14

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Particle Filters**	**EN 143:2021**
	Inspection	Clause 7.3
	Conditioning (temperature)	Clause 7.4.1
	Conditioning (Mechanical strength)	Clause 7.4.2
	Inhalation Resistance	Clause 7.5, EN 13274-3:2001
	Filter Penetration	EN 13274-7:2008 (withdrawn)
	Filtering half masks to protect against particles	**EN 149:2001+A1:2009**
	Visual Inspection	Clause 8.2
	Conditioning – Simulated wearing	Clause 8.3.1
	Temperature conditioning	Clause 8.3.2
	Conditioning Mechanical strength	Clause 8.3.3 & EN 143:2021
	Flow conditioning	Clause 8.3.4
	Practical Performance	Clause 8.4
	Leakage	Clause 8.5
	Flammability	Clause 8.6
	Carbon Dioxide content of inhaled air	Clause 8.7
	Strength of attachment of exhalation valve housing	Clause 8.8
	Breathing Resistance	Clause 8.9
	Penetration of filter material	Clause 8.11, EN 13274-7:2008 (withdrawn)
	Gas Filters and combined filters.	**EN 14387:2021**
	Inspection	Clause 6.3
	Conditioning (temperature)	Clause 6.4.1
	Conditioning (Mechanical strength)	Clause 6.4.2
	Inhalation Resistance	Clause 6.5, EN 13274-3:2001

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Lung governed demand self-contained open-circuit compressed air breathing apparatus with full face mask or mouthpiece assembly for escape**	**EN 402:2003**
	Visual Inspection	Clause 7.3
	Mechanical Strength	Clause 7.4
	Resistance to temperature Conditioning	Clause 7.5.1, EN 13274-5:2001
	Breathing Resistance at low temperature	Clause 7.5.2, EN 13274-3:2001
	Breathing Resistance at High Temperature	Clause 7.5.3, EN 13274-3:2001
	Leak tightness of ready to use apparatus	Clause 7.5.4
	Rated Working Duration	Clause 7.5.5
	Static Pressure	Clause 7.5.6
	Insulation Resistance of non-metallic carrying container	Clause 7.5.7
	Carbon Dioxide content of inhaled air	Clause 7.5.8, EN 13274-6:2001
	Flammability	Clause 7.5.9, EN 13274-4:2001
	Pressure reducer	Clause 7.6
	Low temperature practical performance	Clause 7.7
	Practical performance	Clause 7.8, EN 13274-2:2001
	Breathing Resistance	Clause 7.9, EN 13274-3:2001

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Self-contained open-circuit compressed air breathing apparatus incorporating a hood for escape**	**EN 1146:2005**
	Pre-Conditioning	Clause 6.13.1, EN 13274-5:2001
	Visual Inspection	Clause 7.3
	Mechanical strength	Clause 7.4
	Breathing Resistance at low temperature	Clause 7.5.1, EN 13274-3:2001
	Breathing Resistance at High Temperature	Clause 7.5.2, EN 13274-3:2001
	Leak tightness of ready to use apparatus	Clause 7.6
	Rated Working Duration	Clause 7.7
	Insulation Resistance of non-metallic carrying container	Clause 7.8
	Carbon Dioxide content of inhaled air	Clause 7.9, EN 13274-6:2001
	Flammability	Clause 7.10, EN 13274-4:2001
	Pressure reducer	Clause 7.11
	Practical performance	Clause 7.12, EN 13274-2:2001
	Inhalation and exhalation breathing resistance	Clause 7.13, EN 13274-3:2001
	Inward Leakage	Clause 7.14, EN 13274-1:2001

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Powered filtering devices incorporating a helmet or a hood**	**EN 12941:1998+A2:2008 (withdrawn)**
	Conditioning	Clause 7.1
	Visual Inspection	Clause 7.2
	Inward Leakage	Clause 7.3
	Field of vision	Clause 7.4
	Visor robustness	Clause 7.5
	Breathing Resistance	Clause 7.6
	Air supply flow rate	Clause 7.7
	Resistance to collapse of breathing hose	Clause 7.9
	Strength of hose and couplings and connections	Clause 7.10
	Mechanical strength of filters	Clause 7.11
	Filters particle filter efficiency	Clause 7.12.2, EN 13274-7:2008 (withdrawn)
	Noise Level	Clause 7.13
	Carbon dioxide content of the inhalation air	Clause 7.14
	Resistance to Flame	Clause 7.15
	Practical Performance	Clause 7.16
	Material Porosity	Clause 7.17

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Powered filtering devices incorporating a loose fitting respiratory interface**	**EN 12941:2023**
	Conditioning	Clause 6.2
	Inspection	Clause 6.3
	Inward Leakage	Clause 6.4, EN 13274-1:2001
	Visor robustness	Clause 6.5
	Breathing Resistance	Clause 6.6
	Air supply flow rate	Clause 6.7
	Resistance to collapse of breathing hose	Clause 6.8
	Strength of hose and couplings and connections	Clause 6.9
	Mechanical strength	Clause 6.10
	Filters particle filter efficiency	Clause 6.11.2, EN 13274-7:2008 (withdrawn)
	Mass Carried by the head	Clause 6.12
	Carbon dioxide content of the inhalation air	EN 13274-6:2001
	Resistance to Flame	EN 13274-4:2020
	Noise Level	ISO 16900-14:2020
	Field of Vision	ISO 16900-11:2013
	Practical Performance	EN 13274-2:2019

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Power assisted filtering devices incorporating full face masks, half masks or quarter masks**	**EN 12942:1998+A2:2008 (withdrawn)**
	Conditioning	Clause 7.1
	Visual Inspection	Clause 7.2
	Inward Leakage	Clause 7.3
	Practical Performance	Clause 7.4
	Carbon dioxide content of the inhalation air	Clause 7.5
	Breathing Resistance	Clause 7.6.1, 7.6.2 & 7.6.3
	Manufacturers Minimum Design Duration	Clause 7.7
	Air supply flow rate	Clause 7.8
	Resistance to collapse of breathing hose	Clause 7.10
	Strength of hose and couplings	Clause 7.11
	Interactive Flow Rate	Clause 7.12
	Mechanical Strength of Filters	Clause 7.13
	Particle Filter Efficiency	Clause 7.14.2, EN 13274-7:2008 (withdrawn)
	Resistance to Flame	Clause 7.15
	Noise Level	Clause 7.16

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Powered filtering devices incorporating full face masks, half masks or quarter masks**	**EN 12942:2023**
	Conditioning	Clause 6.2
	Inspection	Clause 6.3
	Inward Leakage	Clause 6.4
	Breathing Resistance	Clause 6.5
	Manufacturers Minimum Design Duration	Clause 6.6
	Air supply flow rate	Clause 6.7
	Resistance to collapse of breathing hose	Clause 6.8
	Strength of hose and couplings	Clause 6.9
	Interactive Flow Rate	Clause 6.10
	Mechanical Strength	Clause 6.11
	Particle Filter Efficiency	Clause 6.12.2, EN 13274-7:2008 (withdrawn)
	Mass Carried by the head	Clause 6.13
	Carbon dioxide content of the inhalation air	EN 13274-6:2001
	Resistance to Flame	EN 13274-4:2020
	Noise Level	ISO 16900-14:2020
	Practical Performance	EN 13274-2:2019

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Compressed air breathing apparatus with demand valve - Apparatus with a full mask**	**EN 14593-1:2005 (withdrawn)**
	Water Immersion	Clause 6.2
	Visual Inspection	Clause 6.3
	Practical performance	Clause 6.4, EN 13274-2:2001
	Strength of Connections to facepiece, demand valve medium pressure connecting tube and breathing hose	Clause 6.5
	Resistance to collapse of breathing hose	Clause 6.6
	Strength of compressed air supply tube, body harness & couplings	Clause 6.7
	Storage conditioning	Clause 6.8
	Flammability	Clause 6.9, EN 13274-4:2020
	Pressure Relief valve	Clause 6.10
	Resistance to Kinking of compressed air supply tube	Clause 6.11
	Resistance to collapse of compressed air supply tube	Clause 6.12
	Heat resistance of compressed air supply tube	Clause 6.13
	Inward leakage	Clause 6.14, EN 13274-1:2001
	Tests for lung governed demand valve	Clause 6.15
	Determination of carbon dioxide content of inhalation air	Clause 6.16, EN 13274-6:2001
	Testing of Audible warning device	Clause 6.17
	Switch over device	Clause 6.18

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Compressed air breathing apparatus with demand valve - Devices with a full face mask**	**EN 14593-1:2018**
	Visual Inspection	Clause 5.2
	Practical performance	Clause 5.3, EN 13274-2:2001
	Strength of Connections to facepiece, demand valve medium pressure connecting tube and breathing hose	Clause 5.4
	Resistance to collapse of breathing hose	Clause 5.5
	Strength of compressed air supply tube, body harness & couplings	Clause 5.6
	Pre-conditioning	Clause 5.7
	Flammability	Clause 5.8, EN 13274-4:2001
	Pressure Relief valve	Clause 5.9
	Resistance to Kinking of compressed air supply tube	Clause 5.10
	Resistance to collapse of compressed air supply tube	Clause 5.11
	Heat resistance of compressed air supply tube	Clause 5.12
	Tests for lung governed demand valve	Clause 5.13, EN 13274-3:2001
	Determination of carbon dioxide content of inhalation air	Clause 5.14, EN 13274-6:2001
	Switch over device	Clause 5.16
	Leak Tightness	Clause 5.17
	Sound level Measurement	Clause 5.18, ISO 16900-14:2020

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Continuous flow compressed air line breathing devices**	**EN 14594:2018**
	Inspection	Clause 6.2
	Practical performance	Clause 6.3, EN 13274-2:2001
	Strength of breathing hose connections	Clause 6.4
	Resistance to collapse of breathing hose	Clause 6.5
	Strength of compressed air supply tube, body harness & couplings	Clause 6.6
	Pre-conditioning	Clause 6.7
	Flammability	Clause 6.8, EN 13274-4:2001
	Pressure Relief valve	Clause 6.9
	Resistance to Kinking of compressed air supply tube	Clause 6.10
	Resistance to collapse of compressed air supply tube	Clause 6.11
	Heat resistance of compressed air supply tube	Clause 6.12
	Determination of carbon dioxide content of inhalation air	Clause 6.13, EN 13274-6:2001
	Inward leakage	Clause 6.14, EN 13274-1:2001
	Warning Device	Clause 6.15
	Mechanical resistance of lens(es) of visor(s) (hood/helmet/suit)	Clause 6.16
	Breathing Resistance	Clause 6.17, EN 13274-3:2001
	Sound Level measurement inside the Hood/helmet/suit	Clause 6.18, ISO 16900-14:2020
	Strength of attachment of exhalation valve	Clause 6.19
	Air supply rate	Clause 6.20
	Effective mass supported by the facepiece	Clause 6.22
	Leak tightness	Clause 6.23

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Breathing apparatus for ships. Emergency escape breathing devices (EEBD) for shipboard use**	**ISO 23269-1:2008**
	Visual Inspection	Clause 4
	High Temperature, High Humidity Conditioning	Clause 5.2
	Drop and Shock Tests	Clause 5.5
	Rated Working Duration*	Clause 6.1
	Overloading*	Clause 6.2
	CO2 Concentration of inhaled gas*	Clause 6.3.1
	Breathing Resistance*	Clause 6.4
	Leak Tightness	Clause 6.7
	Total Inward Leakage	Clause 6.8 (EN 1146:1997)
	Pressure Tests	Clause 6.9
	Flammability	Clause 6.10
	Materials for Visor or transparent parts of non-flexible materials	Clause 6.14
	Operational Tests	Clause 7
	Note Tests marked with an * - for Compressed air type EEBD only	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Breathing apparatus for ships. Self-contained breathing apparatus for shipboard firefighters**	**ISO 23269-2:2011**
	High Temperature, High Humidity Conditioning	Clause 5.2
	Demand Valve Bypass valve	Clause 6.1
	Resistance to Pressure	Clause 6.5
	Equilibrium Pressure in the Facepiece	Clause 6.6
	Visual Inspection	Clause 7.3
	System Leakage	Clause 7.4
	Breathing Resistance	Clause 7.5
	Warning Device	Clause 7.6
	Tests at Low temperature	Clause 7.7.1.2 EN 13274-3:2001
	Tests at High Temperature	Clause 7.7.1.1 EN 13274-3:2001
	Flame Engulfment	Clause 7.7.1.3
	Flammability	Clause 7.7.2 EN 13274-4:2001
	Practical Performance	Clause 7.7.3.1
	Practical Performance at low temperature	Clause 7.7.3.2 EN 13274-2:2001 EN 13274-3:2001
	Practical Test at low temperature after storage at room temperature	Clause 7.7.3.3 EN 13274-2:2001 EN 13274-3:2001

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	**Protective clothing against solid airborne particles including radioactive contamination. - Compressed air line ventilated protective clothing, protecting the body and the respiratory tract**	**EN 1073-1:2016 +A1:2018**
	Distortion of vision	Clause 4.5 Table 3
	Pressure in the suit	Clause 4.11
	Visual Inspection	Clause 5.1.2
	Conditioning for storage	Clause 5.1.3
	Practical Performance test	Clause 5.2
	Minimum and Maximum air flow rate	Clause 5.3
	Determination of Nominal Protection factor	Clause 5.4
	Exhaust device pull test	Clause 5.6
	Carbon Dioxide content of inhaled air	Clause 5.8
	Emergency breathing Escape device protection test	Clause 5.9

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
RESPIRATORY PROTECTIVE EQUIPMENT (cont'd)	Determintion of Inward leakage and Total Inward Leakage	EN 13274-1:2001
	Practical Performance Tests	EN 13274-2:2019 EN 13274-2:2001
	Determination of Breathing Resistance	EN 13274-3:2001
	Flame Tests	EN 13274-4:2001 EN 13274-4:2020
	Climatic Conditions	EN 13274-5:2001
	Determination of Carbon Dioxide Content of Inhaled air	EN 13274-6:2001
	Determination of Particle filter penetration	EN 13274-7:2008 (withdrawn)
	Determination of Field of Vision	ISO 16900-11:2013
	Measurement of Sound Pressure Level	ISO 16900-14:2020
	Electrostatic Properties: Test Voltage 500 V DC	ISO 8031:2020, Clause 4
HELMETS	Flame Engulfment Test	EN 443:2008 Clauses 4.11 & 5.13
END		