

BRITISH STANDARD

Respiratory protective devices for use against chemical, biological, radiological and nuclear (CBRN) agents

Part 1: Positive pressure, self-contained, open-circuit breathing apparatus – Specification

ICS 11.040.10; 13.340.30

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BSi
British Standards

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Foreword

Publishing information

This British Standard was published by BSI. It was prepared by Technical Committee PH/4, *Respiratory protection*. A list of organizations represented on this committee can be obtained on request to its secretary.

Relationship with other publications

BS 8468 will be issued in seven parts:

- *Part 1: Positive pressure, self-contained breathing apparatus – Specification;*
- *Part 2: Negative pressure air purifying devices with full face mask – Specification;*
- *Part 3: Escape hoods – Specification;*
- *Part 4: Powered air-purifying respirators – Specification;*
- *Part 5: Dual-mode apparatus – Specification;*
- *Part 6: Positive-pressure compressed airline equipment – Specification;*
- *Part 7: Closed-circuit breathing apparatus – Specification.*

NOTE This standard may be used in conjunction with BS 8467, which gives categorization, requirements and test methods for personal protective ensembles against CBRN agents.

Information about this document

Increased threat to civilians, emergency and support agencies from chemical, biological, radiological and nuclear (CBRN) agents has led to a need for suitable personal protective equipment (PPE). The lack of coverage of combined CBRN protection in existing British Standards on PPE has recently been identified. This standard has been prepared to give requirements for such PPE.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

1 Scope

This British Standard specifies requirements for positive pressure, self-contained, open-circuit breathing apparatus (SCBA) intended to be used during firefighting, rescue, evacuation, escape, hazard containment and decontamination, and similar activities by emergency first responders (fire, ambulance, police, and associated civilian agencies and workers) in areas containing and contaminated by chemical, biological, radiological and nuclear (CBRN) agents.

NOTE SCBA conforming to this standard might be suitable for use in situations other than those involving the specific CBRN agents identified in the standard.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS EN 132, *Respiratory protective devices – Definitions of terms and pictograms*

BS EN 134, *Respiratory protective devices – Nomenclature of components*

BS EN 136:1998, *Respiratory protective devices – Full face masks – Requirements, testing, marking*

BS EN 137, *Specification for respiratory protective devices: self-contained open-circuit compressed air breathing apparatus*

BS EN 13274-1, *Respiratory protective devices – Methods of test – Part 1: Determination of inward leakage and total inward leakage*

3 Terms and definitions

For the purpose of this British Standard the terms and definitions defined in BS EN 132 and BS EN 134 and the following apply.

3.1 full face mask

tight fitting facepiece covering mouth, nose, eyes and chin

3.2 positive pressure, self-contained, open-circuit breathing apparatus

positive pressure SCBA

self-contained breathing apparatus which is designed to maintain the pressure in the mask above ambient pressure and the exhaled air passes, without recirculation, from the facepiece via the exhalation valve to the ambient atmosphere