

BS 8468-8:2020

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

Part 8: Test methods

Publishing and copyright information

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Published by BSI Standards Limited 2020

ISBN 978 0 539 01064 0

ICS 13.340.30

The following BSI references relate to the work on this document:

Committee reference PH/4

Draft for comment 19/30377910 DC

Amendments/corrigenda issued since publication

Date

Text affected

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Summary of pages

This document comprises a front cover, and inside front cover, pages i to iv, pages 1 to 15, an inside back cover and a back cover.

Foreword

Publishing information

This part of BS 8468 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 August 2020. 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 is published in the following parts:

- Part 1: *Positive pressure, self-contained, open-circuit breathing apparatus – Specification;*
- Part 2: *Negative pressure, air purifying devices with full face mask – Specification;*
- Part 3.1: *Self-contained open-circuit compressed air breathing apparatus incorporating a hood for escape – Specification;*
- Part 3.2: *Air-purifying devices incorporating a hood for escape – Specification;*
- Part 4: *Powered air purifying respirators – Specification;*
- Part 5: *Combined and multi-functional apparatus – Specification;*
- Part 6.1: *Positive-pressure compressed air line equipment – Specification;*
- Part 6.2: *Constant flow compressed air line equipment – Specification;*
- Part 7: *Closed-circuit breathing apparatus – Specification;*
- Part 8: *Test methods.*

Information about this document

BS 8468-8 provides the test methods for visual inspection, and chemical agent permeation and penetration resistance against distilled sulfur mustard (HD) and sarin (GB) and is intended to be read in conjunction with the relevant parts of BS 8468.

This publication can be withdrawn, revised, partially superseded or superseded. Information regarding the status of this publication can be found in the Standards Catalogue on the BSI website at bsigroup.com/standards, or by contacting the Customer Services team.

Where websites and webpages have been cited, they are provided for ease of reference and are correct at the time of publication. The location of a webpage or website, or its contents, cannot be guaranteed.

Use of this document

It has been assumed in the preparation of this part of BS 8468 that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its methods are expressed as a set of instructions, a description, or 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.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

Requirements in this standard are drafted in accordance with *Rules for the structure and drafting of UK standards*, subclause **G.1.1**, which states, “Requirements should be expressed using wording such as: ‘When tested as described in Annex A, the product shall ...’”. This means that only those products that are capable of passing the specified test will be deemed to conform to this standard.

Notes and commentaries are provided throughout the text of this standard. Notes give references and additional information that are important but do not form part of the recommendations. Commentaries give background information.

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 the test methods in support of the chemical, biological, radiological and nuclear (CBRN) standards BS 8468, Part 1 to Part 7. These tests are conducted in laboratories using specific test agents under specific test conditions and therefore do not specify the performance of the products in actual use.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes provisions of this document.¹⁾ For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[BS 8468-1](#), *Respiratory equipment for use against chemical, biological, radiological and nuclear (CBRN) agents – Part 1: Positive pressure, self-contained, open-circuit breathing apparatus – Specification*

[BS 8468-2](#), *Respiratory equipment for use against chemical, biological, radiological and nuclear (CBRN) agents – Part 2: Negative pressure, air purifying devices with full face mask – Specification*

[BS 8468-3.1](#), *Respiratory equipment for use against chemical, biological, radiological and nuclear (CBRN) agents – Part 3.1: Self-contained open-circuit compressed air breathing apparatus incorporating a hood for escape – Specification*

[BS 8468-3.2](#), *Respiratory equipment for use against chemical, biological, radiological and nuclear (CBRN) agents – Part 3.2: Air-purifying devices incorporating a hood for escape – Specification*

[BS 8468-4](#), *Respiratory equipment for use against chemical, biological, radiological and nuclear (CBRN) agents – Part 4: Powered air-purifying respirators – Specification*

[BS 8468-5](#), *Respiratory equipment for use against chemical, biological, radiological and nuclear (CBRN) agents – Part 5: Dual-mode apparatus – Specification*

[BS 8468-6.1](#), *Respiratory equipment for use against chemical, biological, radiological and nuclear (CBRN) agents – Part 6.1: Positive-pressure compressed air line equipment – Specification*

[BS 8468-6.2](#), *Respiratory equipment for use against chemical, biological, radiological and nuclear (CBRN) agents – Part 6.2: Constant flow compressed air line equipment – Specification*

[BS 8468-7](#), *Respiratory equipment for use against chemical, biological, radiological and nuclear (CBRN) agents – Part 7: Closed-circuit breathing apparatus – Specification*

[BS EN ISO 16972](#), *Respiratory protective devices – Vocabulary and graphical symbols*

PD ISO/TS 16975-1: 2016, *Respiratory protective devices – Selection, use and maintenance – Part 1: Establishing and implementing a respiratory protective device programme*

3 Terms and definitions

For the purposes of this part of BS 8468, the terms and definitions given in [BS EN ISO 16972](#) and the following apply.

3.1 chemical agent

toxic chemical that can be disseminated to cause harm

NOTE Chemical agents include chemical warfare agents and toxic industrial chemicals.

¹⁾ Documents that are referred to solely in an informative manner are listed in the Bibliography.