Respiratory protective devices —
Power assisted filtering devices incorporating full face masks, half masks or quarter masks — Requirements, testing, marking
This British Standard is the UK implementation of EN 12942:1998+A2:2008.
It supersedes BS EN 12942:1998+A1:2002 which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by \[\textbf{5}\] \[\textbf{3}\].

The UK participation in its preparation was entrusted to Technical Committee PH/4, Respiratory protection.

A list of organizations represented on this committee can be obtained on request to its secretary.

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.**

---

**Amendments/corrigenda issued since publication**

<table>
<thead>
<tr>
<th>Amd. No.</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30 April 2009</td>
<td>Implementation of CEN amendment A2:2008, and alignment of BSI and CEN publication dates</td>
</tr>
</tbody>
</table>

This British Standard was published under the authority of the Standards Committee and comes into effect on 15 April 1999.

© BSI 2009

ISBN 978 0 580 62122 2
Respiratory protective devices — Power assisted filtering devices incorporating full face masks, half masks or quarter masks — Requirements, testing, marking

Appareils de protection respiratoire — Appareils filtrants à ventilation assistée avec masques complets, demi-masques ou quarts de masques — Exigences, essai, marquage

Atemschutzgeräte — Gebläsefiltergeräte mit Vollmasken, Halbmasken oder Viertelmasken — Anforderungen, Prüfung, Kennzeichnung

This European Standard was approved by CEN on 20 September 1998.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.
This European Standard has been prepared by Technical Committee CEN/TC 79, Respiratory protective devices, the Secretariat of which is held by DIN.

This European Standard supersedes EN 147:1991.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 1999, and conflicting national standards shall be withdrawn at the latest by April 1999.

The significant difference between this European Standard and EN 147:1991 is:

— specifications for devices with gas and combined filters.

This document (EN 12942:1998/prA2:2008) has been prepared by Technical Committee CEN/TC 79 “Respiratory protective devices”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2009 and conflicting national standards shall be withdrawn at the latest by May 2009.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreword</td>
<td>2</td>
</tr>
<tr>
<td>Introduction</td>
<td>3</td>
</tr>
<tr>
<td>1 Scope</td>
<td>3</td>
</tr>
<tr>
<td>2 Normative references</td>
<td>3</td>
</tr>
<tr>
<td>3 Definitions and description</td>
<td>4</td>
</tr>
<tr>
<td>4 Designation</td>
<td>4</td>
</tr>
<tr>
<td>5 Classification</td>
<td>4</td>
</tr>
<tr>
<td>6 Requirements</td>
<td>5</td>
</tr>
<tr>
<td>7 Testing</td>
<td>14</td>
</tr>
<tr>
<td>8 Marking</td>
<td>30</td>
</tr>
<tr>
<td>9 Information supplied by the manufacturer</td>
<td>32</td>
</tr>
<tr>
<td>Annex A (informative) Part-marking</td>
<td>42</td>
</tr>
<tr>
<td>Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives</td>
<td>43</td>
</tr>
</tbody>
</table>
Introduction

A given respiratory protective device can only be approved when its individual components satisfy the requirements of the test specification which can be a complete standard or part of a standard, and practical performance tests have been carried out successfully on a complete device where specified in the appropriate standard. If, for any reason a complete device is not tested then simulation of the device can be done provided the respiratory characteristics and weight distribution are similar to those of the complete device.

1 Scope

This European Standard specifies minimum requirements for power assisted respiratory protective devices which incorporate a full face mask, half mask or a quarter mask together with gas, particle or combined filter(s) used as respiratory protective devices. It does not cover devices designed for use in circumstances where there is or might be an oxygen deficiency (concentration in oxygen less than 17 % by volume). Also, it does not cover respiratory protective devices designed for escape purposes.

Laboratory tests and practical performance tests are included for the assessment of compliance with the requirements.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 132, Respiratory protective devices — Definitions.
EN 134, Respiratory protective devices — Nomenclature of components.
EN 143, Respiratory protective devices — Particle filters — Requirements, testing, marking.
EN 148-1, Respiratory protective devices — Threads for facepieces — Standard thread connection.
EN 166, Personal eye protection — Specifications.
EN 169, Personal eye protection — Filters for welding and related techniques — Transmittance requirements and recommended use.
EN 170, Personal eye protection — Ultraviolet filters — Transmittance requirements and recommended use.
EN 171, Personal eye protection — Infrared filters — Transmittance requirements and recommended use.
EN 379, Personal eye-protection — Automatic welding filters.
EN 60079-0, Electrical apparatus for explosive gas atmospheres — Part 0: General requirements (IEC 60079-0:2004, modified).
EN 60651, Electroacoustics — Sound level meters.