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Respiratory protective devices — Power assisted filtering devices incorporating full face masks, half masks or quarter masks — Requirements, testing, marking

ICS 13.340.30

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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 It supersedes BS EN 12942:1998+A1:2002 which is withdrawn.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 \square_{A1} \square_{A1} .

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.

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

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ISBN 978 0 580 62122 2

Amendments/corrigenda issued since publication

Amd. No.	Date	Comments
14267	11 April 2003	Implementation of CEN amendment A1:2002
	30 April 2009	Implementation of CEN amendment A2:2008, and alignment of BSI and CEN publication dates

ICS 13.340.30

Supersedes EN 147:1991

Descriptors: accident prevention, personal protective equipment, respiratory protective equipment, safety masks, filters, requirements, testing, marking

English version

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.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

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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 European Standard 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 standard.

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

Foreword to amendment A1

This document EN 12942:1998/A1:2002 has been prepared by Technical Committee CEN/TC 79, Respiratory protective devices, the Secretariat of which is held by DIN.

This amendment to the European Standard EN 12942:1998 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2003, and conflicting national standards shall be withdrawn at the latest by May 2003.

This amendment to the European Standard EN 12942 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).

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Contents

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

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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 136:1998, *Respiratory protective devices — Full face masks — Requirements, testing, marking.*

EN 140:1998, *Respiratory protective devices — Half masks and quarter masks — Requirements, testing, marking.*

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 utilisation.*

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 ISO 6941, *Textile fabrics — Burning behaviour — Measurement of flame spread properties of vertically oriented specimens.* (ISO 6941:1984, including amendment 1:1992)

EN 13274-7, *Respiratory protective devices — Methods of test — Part 7: Determination of particle filter penetration.*

EN 60079-0, *Electrical apparatus for explosive gas atmospheres — Part 0: General requirements* (IEC 60079-0:2004, modified).

EN 60079-11, *Explosive atmospheres — Part 11: Equipment protection by intrinsic safety “i”* (IEC 60079-11:2006).

EN 60651, *Electroacoustics — Sound level meters.*