



**NSAI**  
Standards

Irish Standard  
I.S. EN 143:2000

# Respiratory protective devices - Particle filters - Requirements, testing, marking

## I.S. EN 143:2000

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

EN 143:2000/AC:2005

EN 143:2000/A1:2006

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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ICS 13.340.30

English Version

## Respiratory protective devices - Particle filters - Requirements, testing, marking

Appareils de protection respiratoire - Filtres à particules -  
Exigences, essais, marquage

Atemschutzgeräte - Partikelfilter - Anforderungen, Prüfung,  
Kennzeichnung

This amendment A1 modifies the European Standard EN 143:2000; it was approved by CEN on 27 April 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant 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 amendment 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.

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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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## **Foreword**

This document (EN 143:2000/A1:2006) 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 143:2000 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2006, and conflicting national standards shall be withdrawn at the latest by December 2006.

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 89/686/EEC, Annex II.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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.

I.S. EN 143:2000

EUROPEAN STANDARD

**EN 143:2000/AC**

NORME EUROPÉENNE

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EUROPÄISCHE NORM

Mars 2005

März 2005

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ICS 13.340.30

English version  
Version Française  
Deutsche Fassung

Respiratory protective devices - Particle filters - Requirements, testing,  
marking

Appareils de protection respiratoire - Filtres  
à particules - Exigences, essais, marquage

Atemschutzgeräte - Partikelfilter -  
Anforderungen, Prüfung, Kennzeichnung

This corrigendum becomes effective on 9 March 2005 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 9 mars 2005 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 9.März 2005 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.



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COMITÉ EUROPÉEN DE NORMALISATION  
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Ref. No.:EN 143:2000/AC:2005 D/E/F

## **English version**

The key to Figure 3 has to be modified as follows:

- a) 3 holes 1,6 diameter  
equally spaced on 7,9 P.C. diameter
- b) 3 holes 0,34 diameter

## **Version française**

La légende de la Figure 3 doit être modifiée comme suit :

- a) 3 orifices équidistants de diamètre 1,6  
sur un cercle de diamètre extérieur de 7,9
- b) 3 orifices de 0,34 de diamètre

## **Deutsche Fassung**

Die Legende des Bildes 3 ist wie folgt zu ändern:

- a) 3 Löcher 1,6 Durchmesser,  
in gleichem Abstand auf 7,9 P.C. Durchmesser
- b) 3 Löcher 0,34 Durchmesser

English version

## Respiratory protective devices - Particle filters - Requirements, testing, marking

Appareils de protection respiratoire - Filtres à particules -  
Exigences, essais, marquage

Atemschutzgeräte - Partikelfilter - Anforderungen, Prüfung,  
Kennzeichnung

This European Standard was approved by CEN on 7 January 2000.

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.

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## **Foreword**

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 replaces EN 143:1990.

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 August 2000, and conflicting national standards shall be withdrawn at the latest by August 2000.

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.

## Introduction

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

## 1 Scope

This European Standard specifies particle filters for use as components in unassisted respiratory protective devices with the exception of escape apparatus and filtering facepieces.

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

Some filters complying with this European Standard may also be suitable for use with other types of respiratory protective devices and, if so, shall be tested and marked according to the appropriate European Standard.

## 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 of terms and pictograms
EN 134	Respiratory protective devices - Nomenclature of components
EN 148-1	Respiratory protective devices - Threads for facepieces – Part 1: Standard thread connection

## 3 Definitions

For the purposes of this European Standard the definitions in EN 132 and the nomenclature given in EN 134 apply.

## 4 Description

Air enters the particle filter(s) and passes to the facepiece after removal of particles.

## 5 Classification

Particle filters are classified according to their filtering efficiency. There are three classes of particle filters: P1, P2 and P3 in ascending order of the filtering efficiency.

The protection provided by a P2- or P3-filter includes that provided by the filter of lower class or classes.

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