BRITISH STANDARD

BS EN 13274-7:2002

Respiratory protective devices — Methods for test —

Part 7: Determination of particle filter penetration

The European Standard EN 13274-7:2002 has the status of a British Standard

ICS 13.340.30

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National foreword

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The UK participation in its preparation was entrusted by Technical Committee PH/4, Respiratory protection, to Subcommittee PH/4/9, Test methods and interpretation, which has the responsibility to:

— aid enquirers to understand the text;

— present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;

— monitor related international and European developments and promulgate them in the UK.

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

Cross-references

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This British Standard, having been prepared under the direction of the Health and Environment Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 6 January 2003

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English version

Respiratory protective devices - Methods of test - Part 7: Determination of particle filter penetration

Appareils de protection respiratoire - Méthodes d'essai - Partie 7: Détermination de la pénétration des filtres à particules

Atemschutzgeräte - Prüfverfahren - Teil 7: Bestimmung des Durchlasses von Partikelfiltern

This European Standard was approved by CEN on 23 October 2002.

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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 Management Centre has the same status as the official versions.

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Foreword

This document (EN 13274-7:2002) 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of an identical text or by endorsement, at the latest by June 2003, and conflicting national standards shall be withdrawn at the latest by June 2003.

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

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

It is one of several parts, which are as follows:

Part 1: Determination of inward leakage and total inward leakage

Part 2: Practical performance tests

Part 3: Determination of breathing resistance

Part 4: Flame tests

Part 5: Climatic conditions

Part 6: Determination of carbon dioxide content of the inhalation air

Part 7: Determination of particle filter penetration

Part 8: Determination of dolomite dust clogging

Annex A is normative.

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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This European Standard is intended as a supplement to the specific device standards for respiratory protective devices. Test methods are specified for complete or parts of devices. If deviations from the test method given in this standard are necessary, these deviations will be specified in the relevant device standard.

1 Scope

This European Standard specifies the procedure for testing particle filter penetration for respiratory protective devices.

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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 (including amendments).

EN 132, *Respiratory protective devices — Definitions of terms and pictograms.*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 132 together with the following apply.

3.1
ambient conditions
atmosphere where the temperature is (16 to 32) °C and the relative humidity is (20 to 80) %

3.2
dry atmosphere
atmosphere where the relative humidity is less than 20 %

3.3
wet atmosphere
atmosphere where the relative humidity is greater than or equal to 95 %

4 Pre-requisites

In order to implement this Part of EN 13274, at least the following parameters need to be specified in the appropriate device standard:

¾ items to be tested;

¾ number of samples;

¾ test method;

¾ flow rate through the filter;

¾ sequence of conditioning phases, where more than one is required;

¾ specification of any observations to be carried out;

¾ sample preparation and orientation;

¾ sample holding;

¾ pass/fail criteria;

¾ any deviations from this method.

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