

**Hingamisteede kaitsevahendid.
Katsemeetodid. Osa 3:
Hingamistakistuse kindlaksmääramine**

Respiratory protective devices - Methods of test -
Part 3: Determination of breathing resistance

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13274-3:2002 sisaldab Euroopa standardi EN 13274-3:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 14.03.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13274-3:2002 consists of the English text of the European standard EN 13274-3:2001.</p> <p>This document is endorsed on 14.03.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This European Standard specifies the general procedure for measurement of breathing resistance of filters for respiratory protective devices and respiratory protective devices incorporating facepieces, except for diving for respiratory protective devices. The requirements and any special conditions for the apparatus, and of filter measurements are described in the relevant device standard.</p>	<p>Scope:</p> <p>This European Standard specifies the general procedure for measurement of breathing resistance of filters for respiratory protective devices and respiratory protective devices incorporating facepieces, except for diving for respiratory protective devices. The requirements and any special conditions for the apparatus, and of filter measurements are described in the relevant device standard.</p>
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Võtmesõnad: artificial breathing apparatus, hats, human body, particle filt, protective clothing, protective equipment, respirators, respiratory resistance, respiratory system, safety, safety engineering, specification (approval), specifications, testing, workplace safety

ICS 13.340.30

English version

Respiratory protective devices - Methods of test - Part 3: Determination of breathing resistance

Appareils de protection respiratoire - Méthodes d'essai -
Partie 3: Détermination de la résistance respiratoire

Atemschutzgeräte - Prüfverfahren - Teil 3: Bestimmung des
Atemwiderstandes

This European Standard was approved by CEN on 17 August 2001.

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 Management Centre 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 Management Centre 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.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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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 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2002, and conflicting national standards shall be withdrawn at the latest by March 2002.

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.

EN 13274-3 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 inhalation air

Part 7: Determination of aerosol penetration of particle filters

Part 8: Determination of dolomite dust clogging of particle filters

The annexes A and B are 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, 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 general procedure for measurement of breathing resistance of filters for respiratory protective devices and respiratory protective devices incorporating facepieces, except for diving for respiratory protective devices. The requirements and any special conditions for the apparatus, and of filter measurements are described in the relevant device 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 (including amendments).

EN 132, *Respiratory protective devices – Definitions*.

3 Terms and definitions

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

3.1

inhalation resistance

flow resistance of the device during inhalation

3.2

exhalation resistance

flow resistance of the device during exhalation

3.3

static breathing resistance

inhalation resistance or exhalation resistance at defined constant flow expressed as a pressure difference measured between ambient and a specified point within the device

3.4

dynamic breathing resistance

peak inhalation resistance or peak exhalation resistance at a defined sinusoidal flow expressed as a pressure difference measured between ambient and a specified point within the device

4 Pre-requisites

In order to implement this European Standard, at least the following parameters shall be specified in the relevant device standard:

- number of specimens;
- specimen pre-conditioning;