



Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 145:1997

Respiratory protective devices - Self- contained closed-circuit breathing apparatus compressed oxygen or compressed oxygen-nitrogen type -

Appareils de protection respiratoire -
Appareils de protection respiratoire
isolants autonomes à circuit fermé, du
type à oxygène comprimé ou à oxygène-
Atenschutzgeräte - Regenerationsgeräte
mit Drucksauerstoff oder
Drucksauerstoff/-stickstoff -
Anforderungen, Prüfung, Kennzeichnung

08/1997



National Foreword

This European Standard EN 145:1997 was adopted as Luxembourgish Standard ILNAS-EN 145:1997.

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- Participate in the design of standards
- Foresee future developments
- Participate in technical committee meetings

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ICS

Supersedes EN 145:1988
and EN 145-2:1992

Descriptors: personal protective equipment, accident prevention, respiratory protective equipment, compressed gas, oxygen, nitrogen, designation, specifications, safety, tests, marking

English version

**Respiratory protective devices - Self-contained
closed-circuit breathing apparatus compressed
oxygen or compressed oxygen-nitrogen type -
Requirements, testing, marking**

Appareils de protection respiratoire -
Appareils de protection respiratoire isolants
autonomes à circuit fermé, du type à oxygène
comprimé ou à oxygène-azote comprimé -
Exigences, essais, marquage

Atemschutzgeräte - Regenerationsgeräte mit
Drucksauerstoff oder
Drucksauerstoff/-stickstoff - Anforderungen,
Prüfung, Kennzeichnung

This European Standard was approved by CEN on 1997-04-03. 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.

The European Standards exist 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

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 supersedes EN 145:1988 and EN 145-2:1992.

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 February 1998, and conflicting national standards shall be withdrawn at the latest by February 1998.

The significant technical differences between this European Standard and the previous European Standards are:

- specifications for positive pressure devices;
- specifications for oxygen - nitrogen devices.

For relationship with EU Directive, 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 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 mass distribution are similar to those of the complete apparatus.

1 Scope

This European Standard specifies minimum requirements for self-contained closed-circuit breathing apparatus, compressed oxygen (O₂) and compressed oxygen-nitrogen (O₂ - N₂) types, used as respiratory protective devices, except escape apparatus and diving apparatus.

Laboratory 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 132:1990	Respiratory protective devices - Definitions
EN 134:1990	Respiratory protective devices - Nomenclature of components
EN 136:1997	Respiratory protective devices - Full face masks - Requirements, testing, marking
EN 142:1989	Respiratory protective devices - Mouthpiece assemblies - Requirements, testing, marking
EN 144-1:1991	Respiratory protective devices - Gas cylinder valves - Thread connection for insert connector
EN 148-1:1987	Respiratory protective devices - Threads for facepieces - Standard thread connection
EN 148-2:1987	Respiratory protective devices - Threads for facepieces - Centre thread connection
EN 148-3:1992	Respiratory protective devices - Threads for facepieces - Thread connection M 45 x 3
EN 50014:1992	Electrical apparatus for potentially explosive atmospheres - General requirements
EN 50020:1994	Electrical apparatus for potentially explosive atmospheres - Intrinsic safety "i"