



SLOVENSKI STANDARD

SIST EN 136-10:1996

01-april-1996

Oprema za varovanje dihal - Obrazne maske za posebno uporabo - Zahteve, preskušanje, označevanje

Respiratory protective devices - Full face masks for special use - Requirements, testing, marking

Atenschutzgeräte - Vollmasken für speziellen Einsatz - Anforderungen, Prüfung, Kennzeichnung

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Appareils de protection respiratoire - Masques complets pour utilisation particuliere - Exigences, essais, marquage

[SIST EN 136-10:1996](#)

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Ta slovenski standard je istoveten z: EN 136-10:1992

ICS:

13.340.30 Varovalne dihalne naprave Respiratory protective devices

SIST EN 136-10:1996

en

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EUROPEAN STANDARD

EN 136-10:1992

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 1992

UDC 614.894.22:614.847.7:620.1:62-777

Descriptors: Accident prevention, personal protective equipment, respiratory protective equipment, safety masks, components, detail specifications, specifications, tests, marking

English version

Respiratory protective devices - Full face masks for special use - Requirements, testing, marking

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Appareils de protection respiratoire - Masques complets pour utilisation particulière - Exigences, essais, marquage

Atemschutzgeräte - Vollmasken für speziellen Einsatz - Anforderungen, Prüfung, Kennzeichnung

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This European Standard was approved by CEN on 1992-10-16. 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, 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 elaborated by CEN/TC 79 "Respiratory protective devices" of which the secretariat is held by DIN.

It is intended to incorporate EN 136-10 into EN 136 on the occasion of the revision of EN 136.

This Standard was submitted for formal vote, and the result was positive.

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 1993, and conflicting national standards shall be withdrawn at the latest by April 1993.

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The Standard was approved in accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

<http://www.sist-en.org>
60af/sist-en-136-10-1996

- EN 137 Respiratory protective devices; Self-contained open-circuit compressed air breathing apparatus; Requirements, testing, marking
- EN 145-2 Respiratory protective devices; Self-contained closed-circuit compressed oxygen breathing apparatus for special use; Requirements, testing, marking
- EN 148-1 Respiratory protective devices; Threads for facepieces; Standard thread connection
- EN 148-2 Respiratory protective devices; Threads for facepieces; Centre thread connection
- EN 148-3 Respiratory protective devices; Threads for facepieces; Thread connection M 45 x 3
- ISO/DIS 6942:1990 Clothing for protection against heat and fire; Evaluation of thermal behaviour of materials and material assemblies when exposed to a source of radiant heat

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Requirements SIST EN 136-10:1996

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- 3.1 Full face masks for special use shall comply with EN 136. In addition the additional requirements or the exceptions of this standard shall be satisfied.

3.2 Construction

The protection provided by the facepiece shall not be affected by wearing a helmet.

Testing in accordance with 4.3.

3.3 Head harness

Once fitted the head harness shall be easily adjustable by the wearer.

Testing in accordance with 4.3.

3.4 Connector

The connection between the breathing apparatus and the facepiece may be achieved by a permanent, special or thread type connector.

A thread connector shall comply with the requirements of one of the following standards

EN 148-1 for breathing apparatus without positive pressure,

EN 148-2 for closed-circuit breathing apparatus,

EN 148-3 for breathing apparatus with positive pressure.

If any other thread type connector is used it shall not be possible to connect it with the above mentioned threads.

The standard thread according to EN 148-1 shall not be used for apparatus with positive pressure, closed-circuit apparatus and diving apparatus.

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The thread according to EN 148-2 shall not be used for open-circuit devices and diving apparatus.

The thread according to EN 148-3 shall not be used for apparatus without positive pressure, closed-circuit apparatus and diving apparatus.

Testing in accordance with 4.2.

3.5 Resistance to thermal radiation

The full face mask is considered to be resistant to thermal radiation in accordance with this standard if it remains leaktight after a test period of 20 min although it may be deformed.

The full face mask is also considered to be resistant to thermal radiation if the visibility becomes impaired after a test period of ≥ 4 min and the facepiece is still leaktight.

When tested both before and after the thermal radiation test in accordance with 4.4 the leakage shall not exceed that indicated by a change of pressure of 1 mbar in 1 min.

Testing in accordance with 4.4

3.6 Exhalation valve

Full face masks for self-contained open-circuit breathing apparatus with positive pressure equipped with a connector complying with EN 148-3 shall have at least one exhalation valve.

Testing in accordance with 4.2.

3.7 Breathing resistance

Full face masks with a threaded connection according to EN 148-3 for open-circuit self-contained breathing apparatus with positive pressure shall meet the following requirements:

Inhalation resistance: $\leq 3,5$ mbar using a breathing machine adjusted to 40 cycles/min, 2,5 l/stroke

Exhalation resistance: $\geq 4,2$ mbar at a continuous flow of 10 l/min

$\leq 7,0$ mbar using a breathing machine adjusted to 25 cycles/min, 2,0 l/stroke

≤ 10,0 mbar using a breathing machine adjusted to 40 cycles/min, 2,5 l/stroke

Testing in accordance with 4.5.

4 Testing

4.1 For tests involving positive pressure apparatus all testing shall be carried out on complete apparatus including facepiece, as submitted by the applicant.

4.2 Visual inspection

The visual inspection shall be carried out where appropriate by the test station prior to laboratory or practical performance tests. The visual inspection includes marking and instructions for use.

4.3 Practical performance tests

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The practical performance described in EN 136, EN 137 and EN 145-2 shall be performed.

4.4 Resistance to thermal radiation

4.4.1 Principle

The full face mask is exposed to thermal radiation from a source with calibrated radiation output.