SLOVENSKI STANDARD
oSIST prEN 149:2026

01-maj-2026

Oprema za varovanje dihal - Polobrazne maske za zaščito pred delci - Zahteve, preskušanje in označevanje

Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing and marking

Atemschutzgeräte - Filtrierende Halbmasken zum Schutz gegen Partikeln - Anforderungen, Prüfung, Kennzeichnung

Appareils de protection respiratoire - Demi-masques filtrants contre les particules - Exigences, essais, marquage

Ta slovenski standard je istoveten z: **prEN 149**

ICS:

13.340.30	Varovalne dihalne naprave	Respiratory protective devices

oSIST prEN 149:2026 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

DRAFT
prEN 149

March 2026

ICS 13.040.30

Will supersede EN 149:2001+A1:2009

English Version

Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing and marking

Appareils de protection respiratoire - Demi-masques filtrants contre les particules - Exigences, essais et marquage

Atemschutzgeräte - Filtrierende Halbmasken zum Schutz gegen Partikeln - Anforderungen, Prüfung, Kennzeichnung

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 79.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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 CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. prEN 149:2026 E

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European foreword

This document (prEN 149:2026) has been prepared by Technical Committee CEN/TC 79 “Respiratory protective devices”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 149:2001+A1:2009.

prEN 149:2026 includes the following significant technical changes with respect to EN 149:2001+A1:2009:

a) terms and definitions modified;

b) classification extended by optional comfort marking ‘C’;

c) designation modified, R, NR and NR D deleted;

d) values and tolerances modified;

e) test schedule table added;

f) material general requirements modified;

g) cleaning and disinfection as clause deleted;

h) total inward leakage (TIL) test specified in more detail, ISO RPD test heads adopted to be used;

i) test reference for flammability updated;

j) carbon dioxide test modified using ISO RPD test heads;

k) stress tests for head harnesses and attachment points adopted;

l) ISO test for field of vision added;

m) high flow exposure modified;

n) tests for valved masks clearly specified;

o) clogging test deleted;

p) conditioning and simulated wearing treatment modified;

q) marking of packaging updated by size designation;

r) information supplied by the manufacturer updated.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

1 Scope

This document specifies minimum requirements for particle filtering half masks as respiratory protective devices intended to protect the wearer in occupational settings, where there is a health risk(s) from inhaling any type of particles during working activities except for escape purposes.

Laboratory and practical performance tests or references to test method standards are included for the assessment of compliance with the requirements.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13274-2:2019, *Respiratory protective devices — Methods of test — Part 2: Practical performance tests*

EN ISO 16972:2020, *Respiratory protective devices — Vocabulary and graphical symbols (ISO 16972:2020)*

ISO 16900-1:2019, *Respiratory protective devices — Methods of test and test equipment — Part 1: Determination of inward leakage*

ISO 16900-2:2017, *Respiratory protective devices — Methods of test and test equipment — Part 2: Determination of breathing resistance*

ISO 16900-3:2012, *Respiratory protective devices — Methods of test and test equipment — Part 3: Determination of particle filter penetration*

ISO 16900-5:2016,[1] *Respiratory protective devices — Methods of test and test equipment — Part 5: Breathing machine, metabolic simulator, RPD head forms and torso, tools and verification tools — Amendment 1: RPD head forms front and side view*

ISO 16900-9:2015, *Respiratory protective devices — Methods of test and test equipment — Part 9: Determination of carbon dioxide content of the inhaled gas*

ISO 16900-10:2015, *Respiratory protective devices — Methods of test and test equipment — Part 10: Resistance to ignition, flame, radiant heat and heat*

ISO 16900-11:2025, *Respiratory protective devices — Methods of test and test equipment — Part 11: Determination of field of vision*

ISO 16976-2:2022, *Respiratory protective devices — Human factors — Part 2: Anthropometrics*

[1] As impacted by ISO 16900-5:2016/Amd1:2018.

3 Terms, definitions and symbols

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 16972:2020 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp/

— IEC Electropedia: available at https://www.electropedia.org/

3.1.1
working activities
activities that are necessary for the exercise of profession or practice

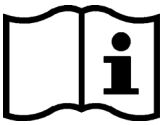
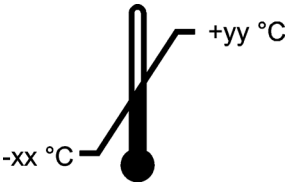
Note 1 to entry: For example, laboratory work, road work, mining, manual activities such as milling, grinding, drilling as well as all activities in the non-professional area where harmful conditions may occur, (e.g. gardening)

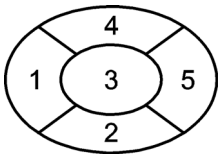
3.1.2
tightly sealed manner
prevention of any leakages between head form and the half masks sealing line when the particle filtering half mask is placed on the test head

Note 1 to entry: This can be achieved by taping or other means, taking care not to reduce the filtering area.

3.2 Symbols

For the purposes of this document, the following symbols apply.

3.2.1	 see information supplied by the manufacturer	SOURCE: ISO 7000, 1641
3.2.2	 Hour glass “end of shelf life” YYYY-MM **Key** YYYY = year, MM = month	SOURCE:ISO 7000, 2607 (in ISO 7000 the explanation is "Use by date")
3.2.2	 temperature range of storage conditions **Key** -xx °C to +yy °C	SOURCE: ISO 7000, 0632

3.2.4	 maximum humidity of storage conditions **Key** <xx %	SOURCE: ISO 7000, 0626
3.2.5	 RPD head form number allocation for size designation Note 1 to entry: The RPD head form number allocation does not correlate with fit of particle filtering half masks to the actual wearer. Note 2 to entry: The symbol is taken from ISO 17420-2:2021.	SOURCE: 17420-2:2021, 3.3.6

4 Description

A particle filtering half mask covers all the nose and mouth and some or all of the chin. The particle filtering half mask consists entirely or substantially of filter material or comprises a facepiece in which the main filter(s) form an inseparable part of the device.

It is intended to provide adequate sealing on the face of the wearer against the ambient atmosphere when the skin is dry or moist and when the head is moved.

Air enters the particle filtering half mask and passes directly to the nose and mouth area of the facepiece or, via an inhalation valve(s), if fitted. The exhaled air flows through the filter material and/or an exhalation valve, if fitted, directly to the ambient atmosphere.

Particle filtering half masks are designed to protect against both solid and liquid aerosols.

5 Classification

Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are 3 classes of particle filtering half masks:

FFP1, FFP2 and FFP3.

The protection provided by an FFP2 - or FFP3 - particle filtering half mask includes that provided by a lower class or classes.

If the breathing resistance does not exceed 50 % of the limits specified in 7.12.1 within its class, it may be marked as breathing comfortable devices with an additional ‘C’.

FFP1 C