

MEDITSIINILISED MASKID. NÕUDED JA
KATSEMEETODID

Medical face masks - Requirements and test methods

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 14683:2025 sisaldab Euroopa standardi EN 14683:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 29.01.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 14683:2025 consists of the English text of the European standard EN 14683:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 29.01.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

Medical face masks - Requirements and test methods

Masques à usage médical - Exigences et méthodes
d'essaiMedizinische Gesichtsmasken - Anforderungen und
Prüfverfahren

This European Standard was approved by CEN on 29 December 2024.

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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

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European foreword

This document (EN 14683:2025) has been prepared by Technical Committee CEN/TC 205 “Non-active medical 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of an identical text or by endorsement, at the latest by July 2025, and conflicting national standards shall be withdrawn at the latest by July 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 14683:2019+AC:2019.

EN 14683:2025 includes the following significant technical changes with respect to EN 14683:2019+AC:2019:

- a) the terms “processor”, “reusable product”, “single-use product” and “transparent medical face mask” have been added to Clause 3;
- b) the Clause “Design” has been amended, first to clarify that requirements for additional features to medical face masks are not specified in this document and secondly to include transparent medical face masks;
- c) the requirements on microbial cleanliness (bioburden) have been specified in more detail;
- d) the unit of differential pressure has been changed to Pa;
- e) A new Clause 6 on “Manufacturing and processing requirements and documentation” has been added;
- f) Annex A “Information for users” has been completely revised;
- g) Annex B “Method for *in vitro* determination of bacterial filtration efficiency (BFE)” has been further specified in regard to the use of the six-stage cascade impactor;
- h) Annex C “Breathability – Method for determination of the differential pressure” has been completed with a formula for the calculation of the airflow, when a different test area is used than the circular test area of 25 mm in diameter (C.4.5);
- i) the option to use AQL for sample numbers in Annex B and Annex C has been removed;
- j) Annex D “Test procedure for microbial cleanliness” has been completely revised;
- k) a new informative Annex E “Rationales” has been added to provide a concise rationale for the important requirements of this document. It includes information on the proposed removal of Type I products in the next revision;
- l) a new informative Annex F “Transparent medical face masks” has been added;
- m) a new informative Annex G “Environmental impact” has been added;
- n) alignment with Regulation (EU) 2017/745 (including updated Annex ZA);
- o) update of normative references and bibliography.

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.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

Medical face masks can be used as part of an infection control chain. The main intended use of medical face masks is to protect patients by attenuating the spread of larger particles from the wearer's mouth and, additionally, in certain circumstances to protect the wearer against splashes of potentially contaminated liquids. Medical face masks may also be intended to be worn by patients and other persons to reduce the risk of spread of infections, particularly in epidemic or pandemic situations.

Bypass leakage around the medical face mask can affect the particle attenuation ability of medical face masks, especially for smaller particles.

Besides the normative annexes, the following informative annexes are included:

- Annex A provides information for the users of medical face masks;
- Annex D provides a test procedure for microbial cleanliness;
- Annex E provides a concise rationale for the important requirements of this document and is intended for use by those who are familiar with the subject of this document but who have not participated in its development;
- Annex F provides some recommendations on transparent medical face masks (TMFM);
- Annex G provides some information to enable the transformation to a circular economy. This included material efficiency – the conservation of materials by making products more durable, resource-efficient and which facilitates the reuse or recycling of parts and/or materials at the end of life.

Standards for face masks for use as respiratory personal protective equipment are available (e.g. EN 149:2001+A1:2009).

Technical Committee CEN/TC 205 "Non-active medical devices" proposes to remove the specification for Type I medical face masks at the next revision of this document. The reasons for doing this are documented in Annex E. Therefore, CEN/TC 205 encourages healthcare organizations and agencies to consider the potential impact on their guidance of this change.

1 Scope

This document specifies construction, design, performance requirements and test methods for medical face masks intended to limit the transmission of infective agents from staff to patients during surgical procedures and other medical settings with similar requirements. A medical face mask with an appropriate microbial barrier can also be effective in reducing the emission of infective agents from the nose and mouth of an asymptomatic carrier or a patient with clinical symptoms.

This document is not applicable to face masks intended exclusively for the personal protection of staff. Compliance with this standard does not demonstrate compliance with the requirements of the relevant PPE regulations.

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 ISO 10993-1:2020, *Biological evaluation of medical devices — Part 1: Evaluation and testing within a risk management process (ISO 10993-1:2018, including corrected version 2018-10)*

EN ISO 11737-1:2018,¹ *Sterilization of health care products — Microbiological methods — Part 1: Determination of a population of microorganisms on products (ISO 11737-1:2018)*

ISO 22609:2004, *Clothing for protection against infectious agents — Medical face masks — Test method for resistance against penetration by synthetic blood (fixed volume, horizontally projected)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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

aerosol

gaseous suspension of solid and/or liquid particles

3.2

bacterial filtration efficiency

BFE

efficiency of the medical face mask material(s) as a barrier to bacterial penetration

Note 1 to entry: The BFE test method is used to measure the bacterial filtration efficiency (BFE) of medical face mask materials.

3.3

biocompatibility

quality of being accepted in a specific living environment without adverse or unwanted side effects

¹ As impacted by EN ISO 11737-1:2018/A1:2021.