

STN	Sterilizácia výrobkov zdravotnej starostlivosti Biologické indikátory Časť 4: Biologické indikátory pri sterilizácii suchým teplom (ISO 11138-4: 2017)	STN EN ISO 11138-4 85 5015
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Sterilization of health care products - Biological indicators - Part 4: Biological indicators for dry heat sterilization processes (ISO 11138-4:2017)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/17

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 11138-4

March 2017

ICS 11.080.20

Supersedes EN ISO 11138-4:2006

English Version

**Sterilization of health care products - Biological indicators
- Part 4: Biological indicators for dry heat sterilization
processes (ISO 11138-4:2017)**

Stérilisation des produits de santé - Indicateurs
biologiques - Partie 4: Indicateurs biologiques pour la
stérilisation à la chaleur sèche (ISO 11138-4:2017)

Sterilisation von Produkten für die
Gesundheitsfürsorge - Biologische Indikatoren - Teil 4:
Biologische Indikatoren für Sterilisationsverfahren mit
Heißluft (ISO 11138-4:2017)

This European Standard was approved by CEN on 19 January 2017.

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European foreword

This document (EN ISO 11138-4:2017) has been prepared by Technical Committee ISO/TC 198 “Sterilization of health care products in collaboration with Technical Committee CEN/TC 102 “Sterilizers and associated equipment for processing of 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of an identical text or by endorsement, at the latest by September 2017 and conflicting national standards shall be withdrawn at the latest by September 2017.

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

This document supersedes EN ISO 11138-4:2006.

The standard is a full technical revision of the previous version. The following amendments have been made in comparison with EN ISO 11138-4:2006:

- requirements on determination of resistance characteristics (9.6) revised.

EN ISO 11138 consists of the following parts, under the general title *Sterilization of health care products — Biological indicators*:

- *Part 1: General requirements*
- *Part 2: Biological indicators for ethylene oxide sterilization processes*
- *Part 3: Biological indicators for moist heat sterilization processes*
- *Part 4: Biological indicators for dry heat sterilization processes*
- *Part 5: Biological indicators for low-temperature steam and formaldehyde sterilization processes*

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

Endorsement notice

The text of ISO 11138-4:2017 has been approved by CEN as EN ISO 11138-4:2017 without any modification.

Sterilization of health care products — Biological indicators —

Part 4: Biological indicators for dry heat sterilization processes

*Stérilisation des produits de santé — Indicateurs biologiques —
Partie 4: Indicateurs biologiques pour la stérilisation à la chaleur sèche*





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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 198, *Sterilization of health care products*.

This second edition cancels and replaces the first edition (ISO 11138-4:2006), which has been technically revised.

A list of all the parts of ISO 11138 can be found on the ISO website.

Introduction

ISO 11138-1 specifies production, labelling, test methods and performance requirements for the manufacture of biological indicators including inoculated carriers and suspensions intended for use in validation and monitoring sterilization processes. This document gives specific requirements for those biological indicators intended for use in dry heat sterilization processes.

The ISO 11138 series represents the current “state-of-the-art” according to the experts representing manufacturers, users and regulatory authorities involved in developing the standard. The intent is not to promote the use of biological indicators where such use is not advised, but to provide common requirements for the production of those biological indicators that are known to be in use today.

A standard exists providing general requirements for the validation and control of dry heat sterilization processes (see ISO 20857).

NOTE It is possible that some countries or regions have published other standards covering requirements for sterilization or biological indicators.

Advice on selection, use and interpretation of results when using biological indicators can be found in ISO 14161.

Sterilization of health care products — Biological indicators —

Part 4:

Biological indicators for dry heat sterilization processes

1 Scope

This document specifies requirements for test organisms, suspensions, inoculated carriers, biological indicators and test methods intended for use in assessing the performance of sterilization processes employing dry heat as the sterilizing agent at sterilizing temperatures within the range of 120 °C to 180 °C.

NOTE 1 Requirements for validation and control of dry heat sterilization processes are provided by ISO 20857.

NOTE 2 Requirements for work place safety can be provided by national or regional 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.

ISO 11138-1:2017, *Sterilization of health care products — Biological indicators — Part 1: General requirements*

ISO 18472, *Sterilization of health care products — Biological and chemical indicators — Test equipment*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN