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STN	**Parné produkty Stanovenie odparenej hmotnosti e-liquidu a hmotnosti zozbieraného aerosólu (ISO 24197: 2022)**	**STN EN ISO 24197** 56 9593

Vapour products - Determination of e-liquid vaporised mass and aerosol collected mass (ISO 24197:2022)

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. 01/23

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EUROPEAN STANDARD

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EUROPÄISCHE NORM

EN ISO 24197

November 2022

ICS 65.160

English Version

Vapour products - Determination of e-liquid vaporised mass and aerosol collected mass (ISO 24197:2022)

Produits de vapotage - Détermination de la masse de e-liquide vaporisé et de la masse d'aérosol collecté (ISO/FDIS 24197:2022)

Dampfprodukte- Bestimmung verdampfter E-Liquid-Masse und gesammelter Aerosolmasse (ISO/FDIS 24197:2022)

This European Standard was approved by CEN on 14 November 2022.

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

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European foreword

This document (EN ISO 24197:2022) has been prepared by Technical Committee ISO/TC 126 "Tobacco and tobacco products" in collaboration with Technical Committee CEN/TC 437 “Electronic cigarettes and e-liquids” the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by May 2023, and conflicting national standards shall be withdrawn at the latest by May 2023.

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Endorsement notice

The text of ISO 24197:2022 has been approved by CEN as EN ISO 24197:2022 without any modification.

INTERNATIONAL STANDARD

ISO 24197

First edition
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Vapour products — Determination of e-liquid vaporised mass and aerosol collected mass

Produits de vapotage — Détermination de la masse de e-liquide vaporisé et de la masse d'aérosol collecté

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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 of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 126, *Tobacco and tobacco products*, Subcommittee SC 3, *Vape and vapour products,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 437, *Electronic cigarettes and related e-liquids,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Technical investigation of vapour products requires determining aerosol collected mass (ACM) and e-liquid vaporized mass (EVM) measurements in emissions. Therefore, there is a necessity to have an International Standard in place to get reliable/comparable data on ACM and EVM in electronic cigarette emissions.

The method in this document is based upon the CORESTA recommended method (CRM) 84,[1] which was written on the basis of the results obtained from interlaboratory studies conducted in 2015[2] and 2019[3] involving 18 and 11 laboratories, respectively.

This document has been developed to describe the procedures used to measure the amount of ACM and EVM in the aerosol from vapour products utilizing a gravimetric method. The experimental design parameters[4][5] used to collect the aerosolised vapour should be evaluated and documented for each analysis.

INTERNATIONAL STANDARD **ISO 24197:2022(E)**

Vapour products — Determination of e-liquid vaporised mass and aerosol collected mass

1 Scope

This document specifies a method of measurement of the masses of e-liquid vaporised and the aerosol collected from vapour product(s).

It does not specify the vapour product(s), the vapour product(s) operational settings or, e-liquid to be used.

NOTE Application of this document can be required as a preliminary step for subsequent analyses.

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 20768, *Vapour products — Routine analytical vaping machine — Definitions and standard conditions*