STN

Parné produkty Bežný analytický odparovací stroj Definície a štandardné podmienky (ISO 20768: 2018)

STN EN ISO 20768

56 9590

Vapour products - Routine analytical vaping machine - Definitions and standard conditions (ISO 20768:2018)

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. 02/22

Obsahuje: EN ISO 20768:2021, ISO 20768:2018

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 20768

December 2021

ICS 65.160

English Version

Vapour products - Routine analytical vaping machine - Definitions and standard conditions (ISO 20768:2018)

Produits de vapotage - Machine à vapoter pour analyses de contrôle - Définitions et conditions normalisées (ISO 20768:2018)

Dampfprodukte - Maschine für die Routineanalyse von Dampfprodukten - Begriffe und Standardbedingungen (ISO 20768:2018)

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European foreword

The text of ISO 20768:2018 has been prepared by Technical Committee ISO/TC 126 "Tobacco and tobacco products" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 20768:2021 by 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of an identical text or by endorsement, at the latest by June 2022, and conflicting national standards shall be withdrawn at the latest by June 2022.

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Endorsement notice

The text of ISO 20768:2018 has been approved by CEN as EN ISO 20768:2021 without any modification.

INTERNATIONAL STANDARD

ISO 20768

First edition 2018-09

Vapour products — Routine analytical vaping machine — Definitions and standard conditions

Produits de vapotage — Machine à vapoter pour analyses de contrôle — Définitions et conditions normalisées



Reference number ISO 20768:2018(E)



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Website: www.iso.org Published in Switzerland

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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*.

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

Vapour products are devices intended for human use, most of which contain electronic components which vaporize a liquid to generate an aerosol carried by the air drawn through the device by the user. The devices are designed either as a single piece or as modular, multiple component products, for disposable, rechargeable and/or refillable use. In some cases, proprietary cartridges, pre-filled with liquid, are replaced. Their use, often described as vaping, has grown substantially in recent years and there are now regulations in place in a number of national and international jurisdictions requiring the measurement of constituents of the aerosol produced by the devices.

This document has been developed to define and specify the requirements of machines used in laboratories to draw air through the devices in order to generate aerosol for subsequent analytical testing in a robust and reproducible manner.

There is a very wide range of vapour products available to consumers and limited reliable data describing how they are used. The available data demonstrates significant intra- and inter-consumer variation in behaviour. Consequently, no machine vaping regime can represent all human vaping behaviour. As reliable data describing human vaping behaviour become available it may be appropriate to test devices differently according to their design, or under conditions of different intensity to reflect the range of human behaviour.

Machine testing is useful to characterize emissions for device development and regulatory purposes, and may be used as inputs for product hazard assessment; however, it is not intended to be nor is it valid as a measure of human exposure or risk. Communication of machine measurements to consumers can result in misunderstandings about differences in exposure and risk across devices.

Vapour products — Routine analytical vaping machine — Definitions and standard conditions

1 Scope

This document:

- defines the parameters and specifies the standard conditions for a vaping machine for vapour products (as defined in 3.1);
- specifies technical requirements for the machine for routine analytical vaping, conforming with the standard conditions stated within <u>Clause 4</u>;
- does not specify the vapour product, the vapour product operation or the liquid to be used;
- does not specify the means for aerosol trapping, subsequent sample preparation or analyses of components in the trapped aerosol.

2 Normative references

There are no normative references in this document.

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