

STN	Elektronické cigarety a e-kvapaliny Určenie konzistencie dodávky nikotínu počas definovaných sekvencií ťahov niekoľkých elektronických cigariet rovnakého typu	STN EN 17634 56 9584
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Electronic cigarettes and e-liquids - Determination of nicotine delivery consistency over defined puff sequences of a number of e-cigarettes of identical type

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

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EUROPEAN STANDARD
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English Version

**Electronic cigarettes and e-liquids - Determination of
nicotine delivery consistency over defined puff sequences
of a number of e-cigarettes of identical type**

Cigarettes électroniques et e-liquides - Détermination
de la constance de délivrance de la nicotine lors de
séquences de bouffées définies avec plusieurs e-
cigarettes identiques

Elektronische Zigaretten und E-Liquids - Bestimmung
der gleichmäßigen Abgabe von Nikotin über definierte
Zugsequenzen einer Anzahl von E-Zigaretten
identischen Typs

This European Standard was approved by CEN on 10 March 2023.

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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

EN 17634:2023 (E)

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European foreword

This document (EN 17634:2023) has been prepared 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of an identical text or by endorsement, at the latest by November 2023, and conflicting national standards shall be withdrawn at the latest by November 2023.

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.

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EN 17634:2023 (E)**1 Scope**

This document specifies a method for the determination of nicotine delivery consistency between e-cigarettes (devices, consumables and combinations).

This document:

- defines the equipment to be used;
- specifies the preparation of the samples for testing;
- specifies the aerosol collection process;
- specifies the analytical method.

Suitable sampling procedures are described for obtaining results from within a single production batch, as well as for sampling across batches.

The method in this document does not seek to demonstrate whether there is consistency between puffs generated at the start or nearer the end of a tank fill or battery charge. The latter is the aim of a separate method under development, EN 17746 *Electronic cigarettes and e-liquids — Determination of nicotine delivery consistency over defined puff sequences within a single e-cigarette* [1]. Two separate methods have been developed to determine consistency of nicotine delivery, pending regulatory clarity on the Tobacco Products Directive's requirement to “deliver nicotine doses at consistent levels” [2].

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 17375, *Electronic cigarettes and e-liquids — Reference e-liquids*

EN ISO 24197, *Vapour products — Determination of e-liquid vaporized mass and aerosol collected mass (ISO 24197)*

EN ISO 24199, *Vapour products — Determination of nicotine in vapour product emissions — Gas chromatographic method (ISO 24199)*

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

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