



SLOVENSKI STANDARD SIST EN 17957:2024

01-december-2024

Hlapni proizvodi - Režim uparjanja za izdelke, namenjene neposrednemu vdihavanju v pljuča

Vapour products - Vaping regime for products intended to be used for direct to lung inhalation

Dampfprodukte - Dampf-Verfahren von Produkten, die für die direkte Inhalation in die Lunge bestimmt sind

Produits de vapotage - Régime de vapotage destiné à l'inhalation directe

Ta slovenski standard je istoveten z: EN 17957:2024

[SIST EN 17957:2024](https://standards.iteh.ai/catalog/standards/sist/88f478d5-a794-4ca9-8330-6f1fc5283200/sist-en-17957-2024)

<https://standards.iteh.ai/catalog/standards/sist/88f478d5-a794-4ca9-8330-6f1fc5283200/sist-en-17957-2024>

ICS:

65.160	Tobak, tobačni izdelki in oprema	Tobacco, tobacco products and related equipment
--------	----------------------------------	---

SIST EN 17957:2024

en,fr,de

EUROPEAN STANDARD

EN 17957

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2024

ICS 65.160

English Version

Vapour products - Vaping regime for products intended to be used for direct to lung inhalation

Produits de vapotage - Régime de vapotage destiné à l'inhalation directe

Dampfprodukte - Verfahren für das Dampfen von Produkten, die für die direkte Inhalation in die Lunge bestimmt sind

This European Standard was approved by CEN on 16 September 2024.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.

<https://standards.iteh.ai>
SIST EN 17957:2024

<https://standards.iteh.ai/catalog/standards/sist/88f478d5-a794-4ca9-8330-6f1fc5283200/sist-en-17957-2024>



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents		Page
European foreword		3
Introduction		3
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Direct to lung vaping regime use conditions	6
5	Reference conditions	6
5.1	Puff duration	6
5.2	Puff volume	6
5.3	Puff period	7
5.4	Puff profile	7
Annex A (informative) Determination of technical characteristics		8
Bibliography		10

ITeH Standards
 (<https://standards.iteh.ai>)
Document Preview

[SIST EN 17957:2024](#)

<https://standards.iteh.ai/catalog/standards/sist/88f478d5-a794-4ca9-8330-6f1fc5283200/sist-en-17957-2024>

European foreword

This document (EN 17957:2024) 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 April 2025, and conflicting national standards shall be withdrawn at the latest by April 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.

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.

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN 17957:2024](#)

<https://standards.iteh.ai/catalog/standards/sist/88f478d5-a794-4ca9-8330-6f1fc5283200/sist-en-17957-2024>

EN 17957:2024 (E)

Introduction

This document has been developed to define an additional vaping regime and to specify its conditions of application. EN ISO 20768 describes the definitions and standard conditions for a routine analytical vaping machine. However, a subset of vapour products characterized by low draw resistance, high power and low heating coil resistance are not suitable for testing under EN ISO 20768 conditions.

This regime is suitable for robust and reproducible generation of aerosol from e-cigarettes specified for direct to lung inhalation for subsequent analytical testing.

Due to the poor literature about puff topography of direct to lung vaping device users, this vaping regime is based on physical lung properties and resting conditions. Puff volume is consistent with the tidal volume (500 ml), the puff duration with a respiration rate of 12 breaths per minute (i.e. inhalation duration of 2,5 s) leading to an average airflow rate estimated at 200 ml/s.

An example of a study exploring the technical characteristics used as criteria of application in this document, in 25 devices, can be found in Reference (2021) [1].

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN 17957:2024](#)

<https://standards.iteh.ai/catalog/standards/sist/88f478d5-a794-4ca9-8330-6f1fc5283200/sist-en-17957-2024>