



**International
Standard**

ISO 6080

**Tobacco heating systems —
Vocabulary**

Systèmes de chauffage du tabac — Vocabulaire

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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 document 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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This document was prepared by Technical Committee ISO/TC 126, *Tobacco and tobacco 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

This document provides standardized terminology for the heated tobacco product (HTP) category and sub-categories as well as the product attributes for each sub-category to aide with the categorization of HTPs.

With the emerging development and commercialization of HTPs in the worldwide marketplace, there is an urgent need for standardization of terminology and definitions to define the types of products that fit within this category. The purpose of standardized terminology is to provide consensus on definitions that describe the HTP category and sub-categories for the purpose of consistency across the scientific community. This standardization ensures that scientific study results apply to the appropriate product types and can be compared across multiple studies.

The purpose of this document is to provide a categorization of the different available designs. These definitions are important to clearly distinguish HTPs from other tobacco products.

NOTE This document is a reference document for ISO standards on tobacco heating systems (e.g. ISO 5501). Regulation and standardisation are independent from each other, and standardisation does not pre-empt regulation.

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Tobacco heating systems — Vocabulary

1 Scope

This document:

- defines standardized terminology and definitions for the heated tobacco product (HTP) category;
- defines the heated tobacco product (HTP) sub-categories and the attributes of each;
- does not include waterpipe or loose-leaf tobacco products.

This document does not specify the means for aerosol trapping, subsequent sample preparation or analyses of components in the trapped aerosol.

The HTP category clearly excludes products such as conventional combustible cigarettes, cigars, roll-your own tobacco products, pipe tobacco products, e-vapor products (also called electronic cigarettes or e-cigarettes), moist smokeless tobacco, oral tobacco products, and oral tobacco derived nicotine (OTDN) products.

This document describes the terms and definitions that apply to tobacco heating systems. Any product that falls under those terms and definitions can be tested applying testing standards that are specifically addressing tobacco heating systems. This document aids in choosing the right standard for tobacco heating systems testing.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1 General terms

3.1.1

tobacco heating system

THS

specific combination of a *tobacco heating device (THD)* (3.1.2) and a *heated tobacco product (HTP)* (3.1.3) used together and designed to produce a nicotine-containing aerosol without combustion of the tobacco substrate

Note 1 to entry: See NOTE in the Introduction.

Note 2 to entry: An ISO standard or a revision of this document, which provides a test method for analysing tobacco heating systems to support the assessment if combustion occurs is under development within ISO/TC 126.

3.1.2

tobacco heating device

THD

device designed to provide the source(s) of heat required to directly or indirectly heat a *heated tobacco product (HTP)* (3.1.3) without combustion of the tobacco substrate

Note 1 to entry: See NOTE in the Introduction.

Note 2 to entry: An ISO standard or a revision of this document, which provides a test method for analysing tobacco heating systems to support the assessment if combustion occurs is under development within ISO/TC 126.

3.1.3

heated tobacco product

HTP

product containing a tobacco substrate that is designed to be heated and not combusted by a separate source to produce a nicotine-containing aerosol

EXAMPLE A separate source is electrical, aerosol or carbon.

Note 1 to entry: See NOTE in the Introduction.

Note 2 to entry: An ISO standard or a revision of this document, which provides a test method for analysing tobacco heating systems to support the assessment if combustion occurs is under development within ISO/TC 126.

3.1.4

e-liquid based consumable

liquid or gel consumable which may or may not contain nicotine intended to be used in combination with a tobacco substrate and transformed into an aerosol

3.1.5

aerosol

suspension of particles in air or gas

Note 1 to entry: The particles can be comprised of only liquids or a mixture of liquids and solids.

3.1.6

emissions

substances that are released into the aerosol when a *heated tobacco product (HTP)* (3.1.3) is consumed as intended

3.1.7

tobacco substrate

material that contains processed tobacco and may contain aerosol generation agents, flavourings, and other ingredients

EXAMPLE Materials that contain processed tobacco are tobacco strands, reconstituted tobacco sheet, tobacco particles, and tobacco powder.

3.1.8

smouldering

sluggish burning of organic material that occurs without flame

3.1.9

loose-leaf tobacco

non-encapsulated or non-wrapped tobacco substrate that does not have a pre-defined size/volume intended to be used directly (placed, pressed, etc.) in a compatible *tobacco heating device (THD)* (3.1.2)

3.2 Terms related to heated tobacco products

3.2.1

electrically heated tobacco product

eHTP

product containing a tobacco substrate that is designed to be heated with an electrical *tobacco heating device* (THD) (see 3.1.2) without combustion of the tobacco substrate in order to produce a nicotine-containing aerosol

Note 1 to entry: eHTP category includes products that:

- are the *heated tobacco product* (HTP) (3.1.3) part of a *tobacco heating system* (THS) (3.1.1);
- contain a tobacco substrate that is encapsulated or wrapped in paper or other material;
- are designed to be used with an electrical tobacco heating device (THD) that:
 - applies indirect resistive, inductive or other electrical method of heating of the tobacco substrate;
 - designed to prevent combustion of the tobacco substrate;
 - are battery powered.

Note 2 to entry: eHTP category may include products that have:

- a puff count and/or use duration that is limited by either the design of the heated tobacco product (HTP) or tobacco heating device (THD) hardware/software.

Note 3 to entry: eHTP category does not include products that are designed to have:

- combustion of any material including tobacco; or that are
- electrically heated waterpipe tobacco products; or
- electrically heated loose-leaf tobacco products.

Note 4 to entry: See NOTE in the Introduction.

Note 5 to entry: An ISO standard or a revision of this document, which provides a test method for analysing tobacco heating systems to support the assessment if combustion occurs is under development within ISO/TC 126.

3.2.2

aerosol heated tobacco product

aHTP

product containing a tobacco substrate that is designed to be heated by an aerosol from an e-liquid based consumable (and optionally additional heating of the substrate by other means as in an eHTP) without combustion of the tobacco substrate in order to produce a nicotine-containing aerosol

Note 1 to entry: aHTP category includes products that:

- are the *heated tobacco product* (HTP) (3.1.3) part of a *tobacco heating system* (THS) (3.1.1);
- contain a tobacco substrate that is encapsulated or wrapped in paper or other material;
- are designed to be used with an electrical *tobacco heating device* (THD) (3.1.2) that:
 - produces an aerosol from an e-liquid based consumable that heats the tobacco substrate;
 - designed to prevent combustion of the tobacco substrate;
 - are battery powered.

Note 2 to entry: aHTP category may include products that have:

- a puff count and/or use duration that is limited by either the design of the heated tobacco product (HTP) or tobacco heating device (THD) hardware/software;

- an HTP used in combination with an electrical tobacco heating device (THD) that provides indirect resistive, inductive or other electrical method of heating of the tobacco substrate in addition to the e-liquid based consumable that heats the tobacco substrate;
- a HTP that is changed more frequently than the e-liquid based consumable.

Note 3 to entry: aHTP category does not include products that are designed to have combustion of any material including tobacco.

Note 4 to entry: See NOTE in the Introduction.

Note 5 to entry: An ISO standard or a revision of this document, which provides a test method for analysing tobacco heating systems to support the assessment if combustion occurs is under development within ISO/TC 126.

3.2.3

carbon heated tobacco product

cHTP

product containing a tobacco substrate that is designed to be heated by smouldering carbon, without combustion of the tobacco substrate in order to produce a nicotine-containing aerosol

Note 1 to entry: cHTP category includes products that have:

- an HTP containing a tobacco substrate that is encapsulated or wrapped in paper or other material;
- heating of the tobacco substrate by smouldering carbon.

Note 2 to entry: cHTP category may include products that have:

- a puff count and/or use duration that is limited by the design of the *heated tobacco product (HTP)* ([3.1.3](#));
- carbon-based heat source where smouldering is initiated by fire.

Note 3 to entry: cHTP category does not include products that are:

- waterpipe tobacco products where tobacco is heated by smouldering carbon.

Note 4 to entry: See NOTE in the Introduction.

Note 5 to entry: An ISO standard or a revision of this document, which provides a test method for analysing tobacco heating systems to support the assessment if combustion occurs is under development within ISO/TC 126.

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- [1] HTP-259-CTR, CORESTA Technical Report, Heated Tobacco Products Task Force, *“Heated Tobacco Products (HTPs): Standardized Terminology and Recommendations for the Generation and Collection of Emissions”*, July 2020
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