



Designation: D8376 – 21

Standard Classification for Cannabis/Hemp Extract Vaporizers¹

This standard is issued under the fixed designation D8376; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This standard shall classify the various types of cannabis/hemp extract vaporizers.

1.2 This classification shall differentiate between the intended use of each type of cannabis/hemp extract vaporizers.

1.3 This classification shall provide examples of each type of cannabis/hemp extract vaporizers. Examples and pictorials shown in the Annexes and Appendixes or described in this classification are not intended to be all-inclusive and are included only as an aid in understanding and comprehension of the classification system.

1.4 For the purposes of this classification system, the term concentrate and extract are interchangeable in the context of source material being consumed. Concentrate and extract are two different products consumed in the same way

1.5 This classification shall apply to vaporizers used to incorporate the extracts of a cannabis plant regardless of the type of cannabis plant from which they were derived. For the sake of brevity, the term “cannabis” shall be used from now on to refer to any type of cannabis plant (cannabis/hemp).

1.6 *Units*—The values stated in SI units are to be regarded as standard. The values given in parentheses after SI units are provided for information only and are not considered standard.

1.7 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.8 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D8270 Terminology Relating to Cannabis

D8372 Guide for Cannabis/Hemp Extract Vaporizers

3. Terminology

3.1 For definitions of terms used in this guide, refer to Terminology D8270 and the terms developed by Subcommittee D37.91 on Terminology.

3.2 *Definitions:*

3.2.1 *atomizer, n*—any device that transforms a substance by means of heating into vapour.

3.2.1.1 *Discussion*—The term atomizer in the vaping world is the component of the device responsible for heating up the substance to vapour. The word atomizer is also commonly used to reference the heating coils of any cartridge, the part that is responsible for vaporizing liquid.

3.2.2 *cartridge, n*—a container or receptacle used for storage of cannabis extracts, that typically contains an atomizer within and is intended to be single use or replaceable.

3.2.3 *chamber, n*—any vessel/receptacle where the user loads material directly into/onto the vaporization mechanism prior to inhalation.

3.2.4 *desktop, n*—any personal consumption device that is designed to rest on a stable horizontal surface while in use.

3.2.5 *handheld, n*—any personal consumption device that is explicitly designed to be held in the user’s hand.

3.2.6 *integrated single use, n*—a common term for an all-in-one disposable vaporizer, comprising a cartridge and battery.

3.2.6.1 *Discussion*—An integrated single use vaporizer can also be called a disposable vaporizer.

3.2.7 *pod, n*—a type of container style, explicitly designed for use with liquids of varying viscosities, typically proprietary, that attaches by means of magnetic connection to an appropriate magnetic vape battery.

¹ This classification is under the jurisdiction of ASTM Committee D37 on Cannabis and is the direct responsibility of Subcommittee D37.08 on Cannabis Devices and Appliances.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard’s Document Summary page on the ASTM website.