



Designation: D8498 – 23

Standard Guide for Compliance to the Specifications of ASTM D8450¹

This standard is issued under the fixed designation D8498; 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.

INTRODUCTION

In the cannabis/hemp industry, fairness in the marketplace for cannabis/hemp products is desired. Thus, standards for assuring safety, quality, and weight stabilization during key steps of the cannabis/hemp flowers sojourn are in order. This guide is added to other ASTM standards to assure safety, quality, and weight stabilization of cannabis/hemp flower and will be used by purveyors who move the cured crop to packaging used for distribution to another licensed operator or the end user.

1. Scope

1.1 Specification **D8450** specifies the environmental conditions, such as temperature, humidity, and lighting under which the cured, dry, cannabis/hemp flowers in fresh format intended for human use are to be packaged to assure the safety, quality, and weight stabilization of the packaged flower. This guide suggests means by which the packager of cannabis/hemp can meet Specification **D8450**.

1.1.1 This guide does not apply to frozen cannabis/hemp.

1.1.2 This guide does not apply to cannabis/hemp intended for extraction.

1.2 This guide applies only to controlling an indoor environment (heat, cooling, humidity control, lighting) surrounding packaging operations. Outdoor operations are outside the scope of this guide and are not addressed.

1.3 This guide can be used by licensed operators in the cannabis/hemp space who move the cured crop(s) into consumer or non-consumer packaging used for distribution.

1.4 Security of the cannabis/hemp flower during the packaging process is not within the scope of this guide.

1.5 This guide is intended to remain valid until the packaged cannabis/hemp flower is placed in storage or transit.

1.6 Authorities having jurisdiction may have additional or alternate requirements which shall take precedence or supersede this guide.

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 appro-*

priate 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

D8196 Practice for Determination of Water Activity (a_w) in Cannabis Flower

D8197 Specification for Maintaining Acceptable Water Activity (a_w) Range (0.55 to 0.65) for Dry Cannabis Flower Intended for Human/Animal Use

D8233 Guide for Packaging and Labeling of Consumer Resin Cannabis Products for Sale to Adult Consumers, Legally Authorized Medical Users, and Caregivers in a Business-to-Consumer Retail Environment (Retailers)

D8270 Terminology Relating to Cannabis

D8309 Guide for Stability Testing of Cannabis-Based Products

D8450 Specification for Environmental Conditions While Packaging Cannabis/Hemp Flower

3. Terminology

3.1 *Definitions*—General definitions are in accordance with Terminology **D8270**, unless otherwise indicated.

3.2 *Definitions of Terms Specific to This Standard:*

¹ This guide is under the jurisdiction of ASTM Committee **D37** on Cannabis and is the direct responsibility of Subcommittee **D37.04** on Processing and Handling.

Current edition approved May 1, 2023. Published June 2023. DOI: 10.1520/D8498-23.

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.