



Designation: D8465 – 23

Standard Guide for Whole Hemp Seed Storage at Primary Production Facilities¹

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INTRODUCTION

The purpose of this guide is to assist farmers to manage moisture conditions of hemp seed during storage, which directly influences seed quality. This guide provides base recommendations for aeration drying or aeration with a supplemental heat source. This guide also identifies recommendations relating to storage of hemp seed immediately following harvest in the field.

1. Scope

1.1 This guide can be used by hemp farmers, hemp seed processing companies, and hemp agricultural extension agents to help manage against potential seed spoilage during storage.

1.2 This applies to broadacre production of hemp seed intended for human consumption.

1.3 This guide does not apply to hemp plants grown indoors or for purposes other than for harvesting of hemp seed intended for food within outdoor production conditions.

1.4 *Units*—The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.5 *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.*

1.6 *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

¹ This guide is under the jurisdiction of ASTM Committee D37 on Cannabis and is the direct responsibility of Subcommittee D37.07 on Industrial Hemp.
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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.

[D8400 Guide for Assessing Spoilage of Hemp Seed Intended for Human Consumption](#)

[D8417 Guide for Sampling of Hempseed Intended for Human Consumption](#)

[D8270 Terminology Relating to Cannabis](#)

3. Terminology

3.1 Definitions:

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

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *bushel, n*—a unit of measurement used in crop production which measures capacity equal to 64 US pints (35.2 L), or 8 British imperial gallons (36.4 L).

3.2.1.1 *Discussion*—The bushel weight may vary by year and variety, however bin fan settings use this volume-based description within seed/grain storage research.

3.2.2 *cleaning seed (grain), v*—removal of weathered or immature seeds, weed seeds, soil and other non-hemp plant or foreign material from a lot of whole hemp seed.

3.2.2.1 *Discussion*—Grain is a general agricultural term used to identify seed sown outdoors for planting and/or harvested for multiple food and other purposes. In this document it is synonymous with seed.

3.2.3 *conditioning, v*—additional removal of extraneous material or drying which assists in managing the moisture of hemp seed for optimum storage or buyer specifications.

3.2.4 *cubic feet per minute (CFM), n*—a measurement of airflow volume determined by how many cubic feet of air passes by a stationary point in one minute.

3.2.4.1 *Discussion*—Metric units will be added for fan settings when those commonly used in agriculture are identified. A metric conversion formula is noted in Table 1.

3.2.5 *dockage, n*—foreign material in seed comprised of weed seeds and unwanted plant or non-plant components.