



Designation: ~~D6268~~—09 D6268 – 15

Standard Practice for Handling, Transportation, and Storage of HFC-125, Pentafluoroethane (C₂HF₅)¹

This standard is issued under the fixed designation D6268; 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 practice covers guidance and direction to suppliers, purchasers, and users in the handling, transportation, and storage of HFC-125, pentafluoroethane (C₂HF₅).

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

1.3 *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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[D6231 Specification for HFC-125 \(Pentafluoroethane, C₂HF₅\)](#)

~~[D6268 Practice for Handling, Transportation, and Storage of HFC-125, Pentafluoroethane \(C₂HF₅\)](#)~~

2.2 *CGA Standards:*³

[C-1 Methods for Hydrostatic Testing of Compressed Gas Cylinders](#)

[C-6 Standards for Visual Inspection of Steel Compressed Gas Cylinders](#)

[C-7 Guide to Preparation of Precautionary Labeling and Marking of Compressed Gas Containers](#)

[P-1 Safe Handling of Compressed Gases in Containers](#)

[SB-1 Hazards of Refilling Compressed Refrigerant \(Halogenated Hydrocarbon\) Gas Cylinders](#)

[SB-5 Safety Bulletin: Hazards of Reusing Disposable Refrigerant \(Halogenated Hydrocarbon\) Gas Cylinders](#)

[SB-18 Safety Bulletin: Use of Refrigerant \(Halogenated Hydrocarbons\) Recovery Cylinders](#)

2.3 *U.S. Government Standards:*⁴

[Code of Federal Regulations \(CFR\) Title 49:40, Part 82.106, Environmental Protection Agency, Warning Statement Requirements](#)

[CFR Title 49, Part 172, U.S. DOT Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements](#)

[CFR Title 49, Part 172.101, U.S. DOT Tables of Hazardous Materials and Special Provisions](#)

[CFR Title 49, Part 173, U.S. DOT Shippers-General Requirements for Shipping and Packaging](#)

[CFR Title 49, Part 178, U.S. DOT Specification for Packagings](#)

[CFR Title 49, Part 180, U.S. DOT Continuing Qualification and Maintenance of Packagings](#)

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *containers*—storage vessels for HFC-125.

¹ This practice is under the jurisdiction of ASTM Committee D26 on Halogenated Organic Solvents and Fire Extinguishing Agents and is the direct responsibility of Subcommittee D26.09 on Fire Extinguishing Agents.

Current edition approved Jan. 1, 2009; Jan. 1, 2015. Published February 2009; April 2015. Originally approved in 1998. Last previous edition approved in 2003 as D6268-98(2003)-09. DOI: 10.1520/D6268-09.10.1520/D6268-15.

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.

³ Available from the Compressed Gas Association (CGA), 14501 George Carter Way, Suite 103, Chantilly, VA 20151, <http://www.cganet.com>.

⁴ Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20036; Publishing Office, 732 N. Capitol St., NW, Washington, DC 20401-0001, <http://www.gpo.gov>.