



AMERICAN SOCIETY FOR TESTING AND MATERIALS

1916 Race St., Philadelphia, Pa. 19103

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Standard Specification for PLASTIC CONTAINERS (JERRY CANS) FOR PETROLEUM PRODUCTS¹

This standard is issued under the fixed designation D 3435; 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.

1. Scope

1.1 The purpose of this specification is to establish nationally recognized quality requirements for plastic containers (jerry cans) intended for use with petroleum products. This specification is intended to provide producers, distributors, users, and code officials with a basis for a common understanding of the characteristics of the product.

1.2 The specification includes requirements and test methods for the material, design, and performance properties of the containers.

1.3 This standard is not a specification for safety containers intended for use with flammable liquids.

1.4 This standard is not a fire hazard standard but a specification for portable plastic containers.

1.5 *The elevated temperature test methods discussed in 4.1.12 and 5.14.3 should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.*

2. Applicable Documents

2.1 ASTM Standards:

- D 471 Test for Rubber Property—Effect of Liquids²
- D 618 Conditioning Plastics and Electrical Insulating Materials for Testing³
- D 635 Test for Rate of Burning and/or Extent and Time of Burning of Self-Support-

ing Plastics in a Horizontal Position⁴

D 638 Test for Tensile Properties of Plastics⁴

D 746 Test for Brittleness Temperature of Plastics and Elastomers by Impact⁵

D 794 Recommended Practice for Determining Permanent Effect of Heat on Plastics⁴

D 999 Vibration Testing of Shipping Containers⁶

D 1525 Test for Vicat Softening Temperature of Plastics⁴

D 1708 Test for Tensile Properties of Plastics by Use of Microtensile Specimens⁴

D 2561 Test for Environmental Stress-Crack Resistance of Blow-Molded Polyethylene Containers⁷

D 2565 Recommended Practice for Operating Xenon Arc-Type (Water-Cooled) Light- and Water-Exposure Apparatus for Exposure of Plastics⁴

G 23 Recommended Practice for Operating Light- and Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Non-metallic Materials⁸

2.2 Other Standards:

CSA Standard B144-1972; Portable Plastic Containers for Petroleum Fuels⁹

¹ This specification is under the jurisdiction of ASTM Committee D-20 on Plastics, and is the direct responsibility of Subcommittee D20.24 on Consumer Plastic Products.

Current edition approved March 3, 1980. Published April 1980. Originally issued as D 3435-75. Last previous edition D 3435-78.

² *Annual Book of ASTM Standards*, Part 37.

³ *Annual Book of ASTM Standards*, Parts 22, 30, 35, and 39.

⁴ *Annual Book of ASTM Standards*, Part 35.

⁵ *Annual Book of ASTM Standards*, Parts 35 and 38.

⁶ *Annual Book of ASTM Standards*, Part 20.

⁷ *Annual Book of ASTM Standards*, Part 36.

⁸ *Annual Book of ASTM Standards*, Parts 27, 32, 35, and 41.

⁹ Available from Canadian Standards Assn., 178 Rexdale Blvd., Rexdale, Ont., Canada M9W 1R3.