

[INCH-POUND]
A-A-457A
November 4, 1993
SUPERSEDING
A-A-457
July 26, 1982

COMMERCIAL ITEM DESCRIPTION

TUMBLER, DRINKING (Plastic)

The General Services Administration has authorized the use of this commercial item description (CID) as a replacement for Federal Specification L-T-800 which has been canceled.

1. SCOPE

1.1 Scope. This commercial item description covers a plastic 8-ounce (236.6 ml) drinking tumbler.

2. SALIENT CHARACTERISTICS

2.1 Material. The tumbler shall be constructed from polycarbonate or styrene-acrylonitrile (SAN) molding materials. The material shall be clear, colorless and transparent.

2.2 Design and construction. The tumblers shall have a rated capacity of 8.0 ounces (236.6 ml). The measured capacity shall be no less than 7.5 ounces (221.8 ml) and no greater than 9.0 ounces (266.1 ml). The tumblers shall have a minimum of three stacking ribs to aid in separation from stacks. The tumbler may have a pebbled exterior at the manufacturer's option. The dimensions shall be as shown in Table I.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: General Services Administration, Engineering Group (7FXEE), 819 Taylor St., Fort Worth, TX 76102

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Table I - Dimensions

Top outside diameter (minimum)	Bottom outside diameter (minimum)	Height (maximum)	Thickness	
			Wall (minimum)	Bottom (minimum)
2-1/2 (63.5 mm)	2-1/16 (52.4 mm)	3-13/16 (96.8 mm)	0.055 (1.4 mm)	0.075 (1.9 mm)

Note: Unless otherwise stated, all dimensions are in inches.

2.3 Performance characteristics. The tumblers shall not emit any objectionable odors when tested as specified (see 4.8.1). When subjected to the dishwashing test, the tumblers shall exhibit no cracks, scratches, distortions, or other defects (see 4.8.2).

2.4 Workmanship. The finished tumblers shall be clean and free from any defects which may impair serviceability, durability or appearance including bubbles, flow marks, scratches, cracks, and rough edges.

2.5 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, providing they fall within tolerances specified using conversion tables contained in the latest revision of FED-STD-376, and all other requirements of this document are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the specification preparing activity for changes to this document.

2.6 Measurement system. The values stated in inch-pound units are to be regarded as the standard. The values stated in parentheses are for information purposes only.

2.7 Commercial item. The use of the term "commercial item description" in this document does not imply that any item or items offered are not required to conform with all requirements specified herein.

3. REGULATORY REQUIREMENTS

3.1 FDA requirements. The plastic material used in the tumbler shall meet the applicable requirements of 21 CFR 121, Federal Food, Drug, and Cosmetic Act.

3.2 Recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

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4. QUALITY ASSURANCE PROVISIONS

4.1 Contractor certification. The contractor shall certify that the item meets the salient characteristics and the requirements of this commercial item description, and, except for any government unique requirements specified, conforms to the producer's own drawings, specifications, standards, and quality assurance practices, and is the same product offered for sale in the commercial marketplace, or is the same product that has been successfully been delivered to the government on a previous contract or purchase order. The government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

4.2 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

4.3 Sampling. The levels of inspection and acceptable quality levels (AQL's) shall be in accordance with MIL-STD-105.

4.4 Lot formation. All tumblers from the same manufacturer offered for delivery at one time shall be considered a lot for purposes of inspection.

4.5 Sampling for visual and dimensional examination. A random sample of tumblers shall be selected from each lot in accordance with inspection level S-4, AQL 4.0 expressed in terms of defects per hundred units. The sample unit shall be one tumbler. The sample tumbler shall be visually and dimensionally examined to verify compliance with table II and the remainder of this commercial item description. All dimensions are absolute as defined in ASTM E 29.

4.6 Examination for preparation for delivery. A random sample of shipping containers shall be selected from each lot for examination of the unit, intermediate and shipping containers (as applicable) for conformance with the packaging, packing, and marking required in the contract or order. Samples shall be selected in accordance with inspection level S-2, AQL 6.5, expressed in terms of defects per hundred units. The sample unit shall be one shipping container.

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TABLE II - Examination for defects

<u>Examine</u>	<u>Defect</u>
Finish	Material not clear, colorless and transparent.
Construction and Workmanship	Stacking ribs missing. Plastic material not as specified (3.1). Capacity not as specified. Dimensions not as specified. Presence of bubbles, flow marks, scratches, cracks, or rough edges.

4.7 Sampling for tests. A random sample of tumblers shall be selected from each lot in accordance with inspection level S-2. Failure of any test shall be cause for rejection of the entire lot. The sample unit shall be one finished tumbler.

4.8 Tests:

4.8.1 Odor. The sample tumblers shall be half filled with boiling distilled water. A plate of glass shall be immediately placed over the top of the tumbler. After 5 minutes, the plate of glass shall be removed and the presence or absence of odor shall be determined immediately.

4.8.2 Dishwashing. The sample tumblers shall be washed in a commercial spray-type dishwashing machine with the recommended detergent amount. The wash cycle shall be 40 seconds (minimum) at 140-160 degrees Fahrenheit (60-71 degrees Celsius) and the rinse cycle 10 seconds (minimum) at 180 degrees Fahrenheit (82 degrees Celsius). The washed tumblers shall show no signs of cracks, scratches, distortions, or other defects.

5. PACKAGING

5.1 Preservation, packing, and marking. The preservation, packing, and marking shall be as specified in the contract or order.

6. NOTES

6.1 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in procurement documents (if applicable):

- a. Title, number and date of this commercial item description.
- b. The preservation, packing, and marking required.

6.2 National Stock Number (NSN). The following NSN corresponds to this CID: 7350-00-680-0645.

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6.3 Sources of documents.

6.3.1 Sources of non-Government association documents.

ASTM E 29 - Standard Practice For Using Significant Digits In Test Data To Determine Conformance With Specifications is available from:

ASTM
1916 Race Street
Philadelphia, PA 19103

6.3.2 Sources of Governmental documents. Copies of Federal standards are available from the General Services Administration Business Service Centers in Boston, MA; New York, NY; Philadelphia, PA; Washington, DC; Atlanta, GA; Chicago, IL; Kansas City, MO; Fort Worth, TX; Denver, CO; San Francisco, CA; Los Angeles, CA; and Seattle, WA, and the GSA Specifications Unit (3FBP-W), Suite 8100, 470 E. L'Enfant Plaza, S.W., Washington, DC 20407.

Copies of military standards are available from:

Standardization Documents Order Desk
Building. 4D
700 Robbins Avenue
Philadelphia, PA 19111-5094.

Copies of the Code of Federal Regulations (CFR) are available from:

Superintendent of Documents
US Government Printing Office
Washington, DC 20402.

Military Coordinating Activity:

Army - GL

Custodians:

Army - GL
Navy - SA
Air Force - 99

Review Activities:

Army - MD, QM
Air Force - 84, 50

User Activity:

Navy - MC

Civil Agency Coordinating Activity:

VA - OSS

PREPARING ACTIVITY:

GSA - FSS

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