

INCH-POUND

A-A-2577A

January 31, 2003

SUPERSEDING

A-A-2577

August 19, 1988

COMMERCIAL ITEM DESCRIPTION

CUP, DISPOSABLE: LID, DISPOSABLE CUP

The General Services Administration has authorized the use of this Commercial Item Description as a replacement for Federal Specification UU-C-806.

1. SCOPE.

1.1 This Commercial Item Description covers disposable paper cups and paper or plastic lids suitable for use by Federal, State, local governments and other interested parties; and as a component in operational combat rations.

2. CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN).

2.1 The paper cups shall be of the following types, styles of construction, classes of coatings, capacities (see Table I), and forms, as specified.

2.1.1 Cups:

Type I - Hot Drink

Style A - Round, Two-piece

Class 3 - Plastic lined

Class 5 - Uncoated

Color - Green or tan/sand (9 ounce only) outer surface

Form - 6 and 8 ounce with or without handles, or 9, 10, 12, and
16 ounce without handles

Type II - Hot Food

Style A - Round, Two-piece

Class 1 - Uncoated (moisture resistant stock)

Class 3 - Plastic lined

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data which may improve this document should be sent to: Defense Supply Center Philadelphia (DSCP), ATTN: DSCP-HSL, 700 Robbins Avenue, Philadelphia, PA 19111-5092

3. SALIENT CHARACTERISTICS.

3.1 Material. The cups shall be made from paper or paperboard. The lids shall be either paperboard, which may be white-lined on both sides or may be solid stock, or shall be plastic or any combination of paper or plastic.

3.1.1 Material Conformance. All cup, lid, and coating materials shall conform in all aspects to the Code of Federal Regulations (CFR), Subpart B of 21 CFR 176, as applicable. Cups shall conform to 21 CFR 176.170 for paper and paperboard in contact with aqueous and fatty foods. Plastic lid and lid components shall conform to 21 CFR 177. Reclaimed fiber shall conform to 21 CFR 176.260.

3.2 Workmanship. The cups and lids shall be clean and free from foreign matter, holes, tears, lumps, or blisters. Lids shall fit snugly. The cups shall be round, nestable construction except type V, style E, which shall be flat, not nested (rectangular).

3.2.1 Cups. Flat cups (type V, style E) shall be made of one piece of paper formed in a rectangular or tapered shape with a gummed lip. The rolled or crimped top brim shall be sufficiently tight to prevent release of the pleats when filling or handling. Conical cups (type V, style C) shall be made from a single sheet of paper formed into a conical shape, with a straight or rolled edge. Round two-piece cups (types I, II, III, IV, V) shall have smooth sidewalls with reinforced or rolled top edges and flat bottoms.

3.2.1.1 Type I, Class 5, Uncoated. The uncoated hot drink cups shall be suitable for composting, shall be biodegradable in seawater, shall be 100 percent paper, and shall not contain any plastic coating or film. The paper stock used shall have a nominal thickness of 17.5 mils and a nominal basis weight of 195 pounds per 3000 square feet. The cups shall have a pictogram (marine dolphin seal) displayed on the outer surface of the cup. The pictogram shall measure approximately 1" in height by 1-1/4" in width.

3.2.2 Handles. When specified, handles shall be paperboard and may be either integral with the cup or adhered to the cup. The handles shall be sufficiently strong, shall not tear or separate from the cup body when subjected to the rigidity test.

3.2.3 Lids. The lids shall be a coverall design with a skirt or flange, which extends over the brim of the cup.

3.3 Color. Color shall be as specified in the solicitation, contract or purchase order. The outer surface of the Type I, Style A, Class 3, 9-ounce cup, exclusive of the rolled edge, shall be either green or tan/sand. When green is specified, it shall approximate one of the following colors of FED-STD-595; 34373, 34441, 34491, 34504, 34516, 34518, 34558, or 34670.

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When tan/sand is specified, it shall approximate one of the following colors of FED-STD-595; 20450, 22563, 23531 or the color of natural kraft paper. The color of the bottom outer surface shall be either white, tan/sand, or natural kraft. Plastic lids may be either clear or opaque.

3.4 Physical Requirements. The capacities and material thickness of the cups shall meet the requirements as specified in Table I.

TABLE I. Cups

Style	Class	Rated capacity ounces	Required capacity minimum ounces	Minimum Thickness	
				Wall inch	Bottom inch
Type I, Hot drink					
Style A	5	9	8-1/2	0.0162	0.0162
Style A	3	6 1/	5-3/4	0.0120	0.0090
		8 1/	7-3/4	0.0120	0.0090
		9	8	0.0130	0.0100
		10	9-3/4	0.0132	0.0100
		12*	11-3/4	0.0132	0.0100
		12**	11-3/4	0.0122	0.0100
		16	15-3/4	0.0140	0.0110
*Single sided	**Double sided				
Type II, Hot food***					
Style A	1	8	7-3/4	0.0152	0.0171
		10	9-3/4	0.0170	0.0171
		12	11-3/4	0.0093	0.0171
		16	15-3/4	0.0093	0.0168
		32	31-3/4	0.0093	0.0189
Style A	3	8	7-3/4	0.0087	0.0120
		12	11-3/4	0.0170	0.0124
		16	15-3/4	0.0170	0.0168
		32	31-3/4	0.0180	0.0180

***Note: Add an alternate bottom thickness of 0.0145 inch for cups with a double poly coating.

TABLE I. Cups (continued)

Style	Class	Rated capacity ounces	Required capacity minimum ounces	Minimum Thickness	
				Wall inch	Bottom inch
Type III, Cold Drink					
Style A	2, 4	5	4-3/4	0.0058	0.0070
		6	5-3/4	0.0068	0.0070
		7	6-3/4	0.0068	0.0070
		8	7-3/4	0.0068	0.0070
		9	8-3/4	0.0068	0.0070
		10 <u>2/</u>	9-3/4	0.0068	0.0070
		12 <u>2/</u>	11-3/4	0.0077	0.0070
		16 <u>2/</u>	15-3/4	0.0099	0.0070
		20 <u>2/</u>	19-3/4	0.0099	0.0070
	24 <u>2/</u>	23-3/4	0.0099	0.0085	
Type IV, Cold Food					
Style A	2	8	7-3/4	0.0084	0.0070
	3	8	7-3/4	0.0084	0.0070
Type V, Water					
Style A	1	4	3-3/4	0.0063	0.0077
	2	4	3-3/4	0.0058	0.0074
Style C	1	3-1/4 <u>3/</u>	3	0.0036	
		3-1/2 <u>3/</u>	3-1/4	0.0036	
		4 <u>3/</u>	3-3/4	0.0036	
Style E	1	4	3-1/2	0.0040	
Type VI, Portion Control					
Style B	1	1	1	0.0036	
	3	1	1	0.0040	

1/ Handles available in these sizes only.

2/ Type III, Cold Drink cups only:

Squat shape: overall height is less than two times the diameter of the base.

Tall shape: Overall height is greater than two times the diameter of the base.

3/ Available in either straight or rolled edge.

3.4.1 Testing of the end item. The end item shall be tested for the applicable characteristics. A sample unit shall consist of four cups of the same type, style, class, color, capacity and form. No more than one sample unit randomly selected shall be drawn from any one shipping container. The lot size for the purpose of determining the sample size shall be expressed in units of 1000 cups of the same type, style, class, color, capacity, or form in the inspection lot.

3.4.1.1 Certificate of conformance. Except for the leakage test, a certificate of conformance to the test requirements shall be accepted in lieu of testing each lot. The contractor shall have available for review evidence that those tests specified herein have been performed on similar items in the past twelve months, that the product being offered has been manufactured using the same materials, processes, and manufacturing techniques, and is otherwise identical to the product tested.

3.4.2 Thickness test. For determining the thickness of the sidewall, cut two specimens approximately 2 inches square from the sidewalls of two of the cups constituting the sample unit and determine the thickness with a micrometer, which has been properly calibrated and graduated to read 0.0001 inch or less. For the thickness of the cup bottom, trim away the sidewalls of two cups to produce a circle of material approximating the diameter of the cup bottom. Determine the thickness as described above. For one-piece pleated cups, the thickness shall be determined on the bottom portion of the cup, after trimming away the sidewalls.

3.4.3 Capacity test. The capacity of the paper cup shall be determined on two cups from each sample unit. Measure to the nearest milliliter the quantity of tap water, at room temperature, required to fill the cup to the brim. The cup shall rest on a smooth level surface. This test shall be performed on cups to be used for the leakage test.

3.4.4 Leakage test.

3.4.4.1 Types I and II. Twenty cups shall be filled with distilled water having a pouring temperature of 180° to 200°F and placed on an irregular or ventilated surface to permit air circulation under the recessed bottom and prevent accumulation of moisture condensation which is not leakage. The cups shall be examined for leakage at the end of 15 minutes.

3.4.4.2 Types III through VI. Twenty cups shall be filled with distilled water at a temperature range of 70° to 75°F. Place a sheet of clean, white bond paper between the cup and the supporting surface. All above types shall be examined for leakage at the end of 15 minutes except type V, styles C and E which shall be examined at the end of 5 minutes while suspended from the top.

3.4.5 Rigidity test. The rigidity of the cups shall be determined on the filled cups used for the leakage test at the end of the time specified for the leakage test. The rigidity shall be observed while holding the cup in the normal position for use. The cups shall not collapse when handled or when being filled for the leakage test.

3.4.6 Odor and taste. A minimum of 60 milliliters distilled water used in the leakage test shall be collected and allowed to stand in a stoppered flask or bottle for 2 hours. The odor and taste of the sample water shall be compared with that of freshly distilled water contained in a stoppered flask for the same length of time and at the same temperature.

4. REGULATORY REQUIREMENTS. In accordance with Section 23.403 of the Federal Acquisition Regulations, the Government's policy is to acquire items composed of the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition without adversely affecting performance requirements or exposing suppliers' employees to undue hazards from the recovered materials.

5. QUALITY ASSURANCE PROVISIONS. The cups shall not leak when tested as specified. The cups shall have sufficient rigidity so that they will not collapse when filling and handling or when tested as specified. The cups and lids shall not impart an objectionable odor when tested as specified.

5.1 Product conformance. The paper cups and lids shall meet the salient characteristics of the CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same cups/lids offered for sale in the commercial market. The lids shall be manufactured and supplied by the same manufacturer of the cups to ensure a snug fit.

5.2 Market acceptance criteria. The item offered, or a generic equivalent, must have been sold to the commercial market or to the Government.

5.3 Acceptance criteria. Acceptance criteria shall be as specified in the solicitation, contract, or purchase order.

6. PACKAGING. Preservation, packaging, packing, labeling and marking shall be as specified in the solicitation, contract or purchase order. For Department of Defense procurements, packaging shall be in accordance with ASTM Standard D 3951.

7. NOTES.

7.1 Purchasers shall specify:

- CID document number, revision, and CID PIN.
- Types, styles, classes, colors, capacities and forms required.
- Packaging requirements (Sec 6. or as specified in the solicitation, contract, or purchase order.)

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7.2 Sources of documents.

7.2.1 Sources of information for nongovernmental documents are as follows:

ASTM methods may be obtained from: **American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.**

7.2.2 Sources of information for governmental documents are as follows:

Copies of military and Federal documents are available from: **Standardization Documents Order Desk, Document Automation and Production Service, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5092.**

MILITARY INTERESTS:

Custodians:

Army - GL
Navy - SA
Air Force - 99

Review Activities:

Army - MD
Navy - MS
Air Force - 84

CIVIL AGENCY COORDINATING ACTIVITY:

VA - OSS
NASA - NA

PREPARING ACTIVITY:

DLA - SS

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