

INCH-POUND

A-A-2577B

January 12, 2011

SUPERSEDING

A-A-2577A

January 31, 2003

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 for all federal agencies.

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.

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

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

Class 5 - Uncoated

Class 6 - Polylactic acid (PLA) lined

Form - 4, 6, and 8 ounce with or without handles, or 9, 10, 12, 16, 20, and 24 ounce without handles. Size 10 ounce available in squat shape. Squat cups have a height less than twice the diameter of the base.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data which may improve this document should be sent to: Defense Logistics Agency (DLA) Troop Support, ATTN: FTSA, 700 Robbins Avenue, Philadelphia, PA 19111-5092.

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Type II - Hot Food

Style A - Round, Two-piece

Class 1 - Uncoated (moisture resistant stock)

Class 2 - Wax coated

Class 3 - Plastic lined

Class 4 - Plastic coated, both sides

Class 6 - Polylactic acid (PLA) lined

Form - Sizes 6, 8, 12, and 16 ounce available in squat shape. Squat cups have a height less than twice the diameter of the base.

Type III - Cold Drink

Style A - Round, Two-piece

Class 2 - Wax coated

Class 4 - Plastic coated, both sides

Class 7 - Polylactic acid (PLA) coated both sides

Form - Sizes 12 and 16 ounce available in squat shape. Squat cups have a height less than twice the diameter of the base.

Type IV - Cold Food, Light Duty (ice cream, condiments)

Style A - Round, Two-piece

Class 2 - Wax coated

Class 3 - Plastic lined

Type V - Water

Style A - Round, Two-piece

Class 1 - Uncoated (moisture resistant stock)

Class 2 - Wax coated

Style C - Conical

Class 1 - Uncoated (moisture resistant stock)

Class 2 - Wax coated

Style E - Flat, not nested

Class 1 - Uncoated (moisture resistant stock)

Type VI - Portion Control

Style B - Pleated

Class 1 - Uncoated (moisture resistant stock)

Class 3 - Plastic lined

2.1.2 Lids - Paper or Plastic Coverall

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.

3.1.1.1 Polylactic Acid Lining. Class 6 and Class 7, polylactic acid lined cups shall conform to ASTM D 6400 and ASTM D 6868.

3.2 Workmanship. The cups and lids shall be clean and free from foreign matter, oil stains or liquid marks, 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) as shown in figure 1 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.

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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. 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 (uncoated)	9	8-1/2	0.0162	0.0162
Style A	3 (plastic lined)	4 <u>1</u> / ₂	3-3/4	0.0113	0.0124
		6 <u>1</u> / ₂	5-3/4	0.0120	0.0090
		8 <u>1</u> / ₂	7-3/4	0.0120	0.0090
		9	8	0.0130	0.0100
		10 <u>2</u> / ₂	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
Style A	6 (PLA lined)	8	7-3/4	0.0110	0.0100
		10	9-3/4	0.0170	0.0100
		12	11-3/4	0.0170	0.0100
		16	15-3/4	0.0170	0.0100
		20	19-3/4	0.0170	0.0100

*Single sided

**Double sided

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TABLE I. Cups (continued)

Style	Class	Rated capacity ounces	Required capacity minimum ounces	Minimum Thickness	
				Wall inch	Bottom inch
Type II, Hot food					
Style A	1 (uncoated moisture resistant stock)	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	2 (wax coated)	3	2-3/4	0.0093	0.0093
		4	3-3/4	0.0113	0.0093
		5	4-3/4	0.0113	0.0093
		6	5-3/4	0.0093	0.0093
		8	7-3/4	0.0093	0.0093
Style A	3 (plastic lined)	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
Style A	4 (plastic coat- ed, both sides)	6	5-3/4	0.0124	0.0124
		8	7-3/4	0.0180	0.0140
		12	11-3/4	0.0180	0.0140
		16	15-3/4	0.0180	0.0180
		32	31-3/4	0.0180	0.0180
Style A	6 (PLA lined)	64	63-3/4	0.0200	0.0200
		12	11-3/4	0.0132	0.0124
Type III, Cold Drink					
Style A	2, 4, 7 (wax coated, or plastic or PLA coated, both sides)	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

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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, 7 (wax coated, or plastic or PLA coated, both sides)	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 (wax coated)	4	3-3/4	0.0084	0.0070	
		8	7-3/4	0.0084	0.0070	
	3 (plastic lined)	8	7-3/4	0.0084	0.0070	
Type V, Water						
Style A	1 (uncoated moisture resistant stock)	4	3-3/4	0.0063	0.0077	
		2 (wax coated)	4	3-3/4	0.0058	0.0074
Style C	1 (uncoated moisture resistant stock)	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		
		2 (wax coated)	4	3-3/4	0.0056	
			4-1/4	4	0.0056	
			5	4-3/4	0.0056	
			6	5-3/4	0.0056	
			7	6-3/4	0.0056	
			8	7-3/4	0.0056	
			10	9-3/4	0.0063	
Style E	1 (uncoated moisture resistant stock)	4	3-1/2	0.0040		
Type VI, Portion Control						
Style B	1 (uncoated moisture resistant stock)	1	1	0.0036		
		3 (plastic lined)	1	0.0040		

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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. PRODUCT CONFORMANCE 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.

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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.)

7.2 Part or Identification Number (PIN). The following PIN procedure is for government purposes.

Example - AA2577 - I A 3 W 1 S 08 (AA2577-IA3W1S08)

| | | | | | | |---Size: 8 ounce
| | | | | | | |---Form (shape): S - squat,
| | | | | | | R - regular, T - tall
| | | | | | | |---Form, handle: 1 - not provided
| | | | | | | 2 - provided
| | | |---Color: W - white, G - green
| | |---Class: 3 - Plastic coated
| |---Style: A - Round, Two-piece
|---Type: I - Hot Drink

7.3 Key words. Container, drink, paper

7.4 Sources of documents.

7.4.1 Source of information for nongovernmental document is as follows:

ASTM methods may be obtained from: ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 or www.astm.org.

7.4.2 Source of information for governmental documents are as follows:

Copies of military and Federal documents are available from: Standardization Documents Order Desk, DLA Document Services, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5092 or on the Internet at: <https://assist.daps.dla.mil> or <https://assist.daps.dla.mil/quicksearch/>.

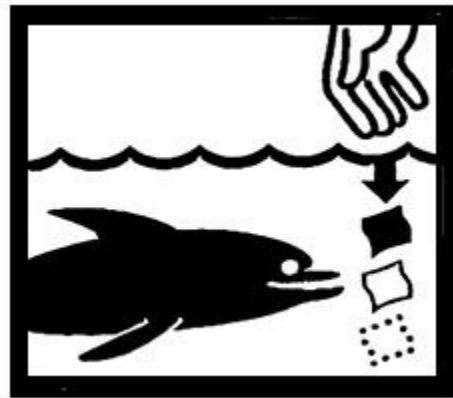


Figure 1

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
GSA - FAS

PREPARING ACTIVITY:

DLA - SS

(Project No. 7350-2009-001)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil>.

ADMINISTRATIVE
NOTICE

INCH-POUND

A-A-2577B
NOTICE 1
February 2, 2018

COMMERCIAL ITEM DESCRIPTION (CID)

CUP, DISPOSABLE: LID, DISPOSABLE CUP

FED-STD-595C, dated 16 January 2008, and all associated slash sheets, were canceled on February 14, 2017. SAE AMS-STD-595, "Colors Used in Government Procurement," supersedes FED-STD-595C. Therefore, throughout A-A-2577B, make the following revision:

Change FED-STD-595 to SAE AMS-STD-595

MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITY:

Custodians:

Army - GL
Navy - SA
Air Force - 99

VA - OSS
NASA - NA
GSA - FAS

PREPARING ACTIVITY:

Review Activities:

Army - MD
Navy - MS
Air Force - 84

DLA - SS

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