

MIL-D-43551A

28 June 1971

SUPERSEDING

MIL-D-43551

8 November 1967

MILITARY SPECIFICATION

DISPENSER, CONDIMENTS, COUNTERTOP

This specification is mandatory for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 This specification covers one type and size of corrosion-resisting steel in-line countertop condiment dispenser.

2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issue in effect on date of invitation for bids or request for proposal form a part of this specification to the extent specified herein:

SPECIFICATION

FEDERAL

- L-P-393 - Plastic Molding Material, Polycarbonate, Injection and Extrusion
- PPP-B-636 - Box, Fiberboard

STANDARDS

FEDERAL

- FED-STD-601 - Rubber: Sampling and Testing

MILITARY

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes
- MIL-STD-129 - Marking for Shipment and Storage
- MIL-STD-130 - Identification Marking of U.S. Military Property

FSC 7320

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(Copies of specifications and standards required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications.- The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

NATIONAL SANITATION FOUNDATION (NSF)

Standard No. 2 - Food Service Equipment (1965).

Listing of Food Service Equipment.

(Application for copies should be addressed to the National Sanitation Foundation, P.O. Box 1468, Ann Arbor, Michigan 48106.)

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

Specification A167 - Corrosion-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pa. 19103.)

NATIONAL MOTOR FREIGHT TRAFFIC ASSOCIATION, INC., AGENT

National Motor Freight Classification

(Application for copies should be addressed to the American Trucking Associations, Inc., Tariff Order Section, 1616 P Street, N. W., Washington, D. C. 20036.)

UNIFORM CLASSIFICATION COMMITTEE, AGENT

Uniform Freight Classification

(Application for copies should be addressed to the Uniform Classification Committee, Room 202, Union Station, 516 W. Jackson Blvd., Chicago, Illinois 60606.)

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(Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

3. REQUIREMENTS

* 3.1 First article.- When specified (see 6.2), the supplier shall furnish a sample for first article inspection and approval (see 4.2 and 6.3).

* 3.2 Standard product.- The dispenser delivered under this specification shall be the current standard product of the manufacturer except for changes necessary to meet specification requirements.

3.3 NSF standard.- The dispenser shall conform to the applicable requirements of NSF Standard No. 2.

3.3.1 NSF certification.- The supplier shall submit satisfactory evidence to the contracting officer or his authorized representative that the dispensers he proposes to furnish under this specification meets the applicable requirement of NSF Standard No. 2 as follows:

(1) Listing in the current edition of the NSF "Listing of Food Service Equipment" or display of the NSF seal on the finished dispensers shall be submitted prior to approval of the preproduction sample, if one is submitted, or prior to approval of the first shipment, or

(2) A certification for the dispensers issued by NSF under their special one-time contract evaluation/certification service shall be submitted prior to approval of the preproduction sample, if one is submitted, or prior to approval of the first shipment, or

(3) A certified test report from a recognized independent testing laboratory acceptable to the medical department of the service for which the cabinets are being procured, indicating that the dispensers have been tested and conform to NSF Standard No. 2 shall be submitted prior to approval of the preproduction sample, if one is submitted, or prior to commencing production.

* 3.4 Material.- Material not definitely specified shall be of the quality normally used by the manufacturer for dispensers provided the completed dispenser complies with all provisions of this specification.

3.4.1 Corrosion-resisting steel.- Corrosion-resisting steel shall conform to the chemical composition of steel type 302 or 304 as specified in ASTM A167.

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3.5 Design.- The dispenser shall be designed for countertop dispensing of condiments. The dispensing stand shall be 29 inches long by 8 inches wide by 7-1/2 inches high with tolerances of plus or minus 1/4 inch. The stand shall be formed with a 10 to 20 degree, from the horizontal, slanted top front surface with openings for inserting condiment containers. The stand shall be enclosed at the top, back, ends, and front and shall be fitted with a rubber foot at each corner, which shall be attached in addition to the 7 1/2-inch dispenser height.

3.6 Construction.-

- * 3.6.1 Stand.- The stand shall be die drawn from one piece or fabricated from not less than 23 gage (0.0281 inch nominal) corrosion-resisting steel having dimensions as described above. The top front shall have six in-line, evenly spaced on both axis, holes along its length. Hole opening shall provide a maximum tolerance of 1/16 for each container. Natural or synthetic rubber feet with a Shore A durometer hardness of 70 + 10 and tensile strength of 1500 pound per square inch (psi) when tested as specified in 4.4.1. Rubber feet shall be secured to the stand by means of self-locking screws, machine screws and nuts, or rivets. Fastening devices shall not extend below the rubber feet.
 - * 3.6.2 Containers.- Six containers with covers shall be furnished with each stand unless otherwise specified (see 6.2). Containers shall be formed of not less than 21 gage (0.0343 inch nominal) corrosion-resisting steel specified in 3.4.1 and shall be die-drawn or spun in one piece with radius bottoms. Each container shall have a minimum capacity of 1 quart. The top shall be formed into a minimum 1/4 inch wide flange or open rolled edge. Containers shall fit loosely into the stand openings (see 3.6.1). When in normal use position, the bottom shall not contact the countertop.
 - * 3.6.3 Covers.- Each container shall be provided with a snug-fitting hinged cover. The cover shall be formed of transparent plastic conforming to L-P-393. When specified (see 6.2), a corrosion-resisting steel cover shall be furnished. Corrosion-resisting steel shall be not less than 23 gage (0.0281 inch nominal) conforming to 3.4.1. Covers shall be fitted with a corrosion-resisting steel or a chrome-plated knob fastened at the center. The outer edge of the cover opposite the hinge shall be cut out to provide a slot for inserting a spoon or fork. The hinge shall be clipped over the container rim in a manner to allow removal of the cover from the container, but secure enough to prevent the cover from falling off during use.
- 3.7 Identification marking.- The dispenser stand shall be marked in accordance with MIL-STD-130.

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3.8 Finish.- All exposed corrosion-resisting steel surfaces of the stand, containers, (and covers, if corrosion-resisting steel) shall be in accordance with NSF Standard No. 2. There shall be no evidence of discoloration, rust, or stains.

3.9 Workmanship.- Dispensers shall be clean, and shall be free of scratches, sharp edges, rough die-or grind-marks, or pits. Finished items shall not be buckled, malformed, or otherwise damaged. Welds shall be sound and blended with adjacent surfaces. Scale and flux deposits shall be removed. Chrome-plating on knobs (if applicable) shall not be peeled or blistered.

4. QUALITY ASSURANCE PROVISIONS

- * 4.1 Responsibility for inspection.- Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier 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 supplies and services conform to prescribed requirements.
- * 4.2 First article inspection.- When a preproduction sample is required, it shall be examined for defects listed in table I and for compliance with dimensions specified herein. The presence of any defects listed in table I or any dimension not within specified requirements shall be cause for rejection of the preproduction sample.
- * 4.3 Inspection.- Sampling for inspection shall be performed in accordance with MIL-STD-105, except where otherwise indicated hereinafter.
 - 4.3.1 Component and material inspection.- In accordance with 4.1 above, components and materials shall be inspected and tested in accordance with all the requirements of referenced specifications, drawings and standards unless otherwise excluded, amended, modified or qualified in this specification or applicable purchase document.
 - 4.3.1.1 In-process tests.-

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4.3.1.1.1 Rubber.- The rubber used for the feet shall be tested for durometer hardness and tensile strength in accordance with 4.4.1. The lot shall be the rubber of dispensers offered for inspection at one time. Two specimens shall be used for each test. A specimen shall be one rubber foot.

4.3.2 End item inspection.- The inspection lot shall consist of all dispensers offered for inspection at one time. The sample unit for this inspection shall be one completely fabricated dispenser.

4.3.2.1 Visual examination.- Examination shall be made of the end item for the defects listed in table I. The inspection level shall be level II with an acceptable quality level (AQL) of 2.5 for major defects and 6.5 for total defects expressed in terms of defects per hundred units.

TABLE I.- Classification of defects

Examine	Defect	Classification	
		Major	Minor
Finish	Finish not as specified.	X	
Construction and workmanship (applicable to all components)	Any component buckled, malformed, or otherwise damaged	X	
	Welds not ground smooth and blended with adjacent metal	X	
	Weld not sound.	X	
	Any sharp edges, scratches, rough die or grind marks, or pits	X	
	Scale or flux deposits not removed		X
	Chrome plating (if applicable) on knobs peeled or blistered	X	
	Detailed construction		
Body	Body construction not as specified	X	
	Rubber feet missing	X	
	Fastening devices extend below rubber feet	X	
	Number of holes not as specified	X	

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TABLE I.- Classification of defects (cont'd)

Examine	Defect	Classification	
		Major	Minor
Detailed construction (cont'd)			
Containers	Not correct number (6)	X	
	Not formed of one piece	X	
	Not flanged for cover		X
	Bottoms touch countertop when in place	X	
Covers	Not of specified material	X	
	Not snug fit with container rim		X
	Cutout not provided	X	
	Knob missing or not as specified	X	
	Hinge loose on cover	X	
	Hinge does not allow removal of cover from container	X	
Marking	Missing, illegible, or not as specified		X

* 4.3.2.2 Dimensional examination.- Examination shall be made of the dispensers for compliance with dimensions specified herein. Any deviation from specified requirements shall constitute a defect. The inspection level shall be S-2 with an AQL of 4.0 defects, expressed in terms of defects per hundred units.

4.3.3 Code and standards compliance.- Proof of compliance with the requirements of 3.3 shall be submitted to the Government representative

* 4.3.4 Examination of preparation for delivery.- An examination shall be made to determine that packaging, packing, and marking as required by section 5 of this specification are complied with. Defects shall be as indicated in table II. The sample unit shall be one shipping container fully prepared for delivery. The lot shall be the number of containers offered for inspection at one time. The inspection level shall be S-2 with an AQL of 4.0, expressed in terms of defects per hundred units.

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TABLE II.- Examination of preparation for delivery

<u>Examine</u>	<u>Defect</u>
Marking	Omitted, incorrect, illegible, of improper size, location, sequence, or method of application.
Materials	Component missing, damaged or otherwise defective.
Contents (exterior)	More or less than required.

4.3.5 Examination of shipping containers.- When shipping containers are required to be in accordance with PPP-B-636, examination for defects in closure, waterproofing, and strapping shall be in accordance with PPP-B-636.

* 4.4.1 Test for rubber.- The test for rubber feet shall be in accordance with methods 3021 and 4111 of FED-STD-601.

5. PREPARATION FOR DELIVERY

5.1 Packaging.- Packaging shall be level A or C as specified (see 6.2).

5.1.1 Level A.-

5.1.1.1 Component packaging.- The cover shall be installed on the container and the body of each container shall be wrapped with tissue paper. The containers shall then be inserted into the dispenser stand and secured in place by taping the cover to the dispenser stand with pressure-sensitive tape. When covers are fabricated from plastic, tissue paper shall be used to prevent the adhesive tape from contacting the plastic.

5.1.1.2 Unit packaging.- Each dispenser shall be packaged in a snug-fitting fiberboard box conforming to style RSC, type CF, variety SW, or type SF, class domestic of PPP-B-636. Closure shall be in accordance with method II of the appendix of PPP-B-636.

5.1.2 Level C.- Dispensers shall be packaged to afford adequate protection against damage during shipment from the supply source to the first receiving activity. The supplier may use his standard practice when it meets this requirement.

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5.2 Packing.- Packing shall be level A, B, or C as specified (see 6.2).

5.2.1 Level A.- Four dispensers, packaged as specified in 5.1, shall be packed in the most compact manner in a snug-fitting fiberboard shipping container conforming to style RSC, V2s of PPP-B-636. Closure, waterproofing by means of tape, and reinforcing with flat strapping or tape banding shall be in accordance with the appendix of PPP-B-636.

5.2.2 Level B.- Four dispensers packaged as specified in 5.1 shall be packed in the most compact manner in a snug-fitting fiberboard shipping container conforming to style RSC, type CF, variety SW, or type SF, class domestic, grade 275 of PPP-B-636. Closure shall be in accordance with method II of the appendix of PPP-B-636.

5.2.2.1 When specified (see 6.2), the shipping container shall conform to V3c, V3s, or V4s fabricated and closed in accordance with PPP-B-636.

5.2.3 Level C.- Dispensers, packaged as specified in 5.1, shall be packed in a manner to insure carrier acceptance and safe delivery at destination at the lowest transportation rate for such supplies. Containers and packing shall comply with Uniform Freight Classification Rules or National Motor Freight Classification Rules.

5.3 Marking.- In addition to any special marking required by the contract or order, interior packages and shipping containers shall be marked in accordance with MIL-STD-129.

6. NOTES

6.1 Intended use.- The dispensers covered herein are intended for self service dispensing of condiments in all authorized dining facilities and snack bars.

* 6.2 Ordering data.- Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) When a first article is required (see 3.1, 4.2, and 6.3).
- (c) Number of containers if other than specified (see 3.6.2).
- (d) When a corrosion-resisting steel cover is required (see 3.6.3).
- (e) Selection of applicable level of packaging and packing (see 5.1 and 5.2).
- (f) When V3c or V3s fiberboard is required for level B pack (see 5.2.2.1).

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- * 6.3 First article.- When a first article is required, it shall be inspected and approved under the appropriate provisions of ASPR 7-104.55. The first article should be a preproduction sample. The first article should consist of one unit. The contracting officer should include specific instructions in all procurement instruments, regarding arrangements for inspection and approval of the first article.

6.4 The margins of this specification were marked with an asterisk (*) to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and suppliers are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

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