

MIL-D-43975
22 February 1978
SUPERSEDING
(See 6.4)

MILITARY SPECIFICATION

DISPENSER, BREAD, FRONT AND REAR LOADING

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

1. SCOPE

1.1 Scope. This specification covers a front and rear loading bread dispensers.

1.2 Classification. Bread dispensers shall be of the following sizes, as specified (see 6.2).

Size 3 - 3 Compartment
Size 5 - 5 Compartment

2. APPLICABLE DOCUMENTS

2.1 Issues of documents. 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:

SPECIFICATIONS

FEDERAL

PPP-B-601 - Boxes, Wood, Cleated-Plywood
PPP-B-621 - Boxes, Wood, Nailed and Lock-Corner
PPP-B-636 - Boxes, Shipping, Fiberboard

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, US Army Natick Research and Development Command, ATTN: DRXNM-TDG, Natick, MA 01760 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC 7320

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- MIL-L-10547 - Liners, Case, and Sheet, Overwrap, Water Vaporproof or Waterproof, Flexible
- MIL-P-116 - Preservation-Packaging, Methods Of

STANDARDS

MILITARY

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes
- MIL-STD-129 - Marking for Shipment and Storage

(Copies of specifications, standards, and drawings required by contractors 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:

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- A 167 - Stainless and Heat 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 SANITATION FOUNDATION (NSF)

- No. 2 - Food Service Equipment
- Listing of Food Service Equipment

(Application for copies should be addressed to the National Sanitation Foundation, NSF Building, Ann Arbor, MI 48105.)

NATIONAL MOTOR FREIGHT TRAFFIC ASSOCIATION, INC., AGENT

National Motor Freight Classification

(Application for copies should be addressed to the American Trucking Associations, Inc., Traffic Department, 1616 P Street, N.W., Washington, DC 20036.)

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UNIFORM CLASSIFICATION COMMITTEE, AGENT

Uniform Freight Classification

(Application for copies should be addressed to the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

(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 Standard product. The bread dispenser shall, as a minimum, be in accordance with the requirements of this specification and shall be the manufacturer's standard commercial product with any added features needed to comply with the requirements of this specification. Modifications to add features shall not incorporate different parts unless such parts are used on other current commercial models. Standard or modified commercial products furnished in accordance with this specification shall be identifiable by all regular manufacturer's or commercial service organizations servicing the brand involved. Service organizations shall be capable of providing complete parts and repair services on models furnished to the Government consistent with their normal commercial practices.

3.2 Codes and standards. The bread dispenser shall comply with the applicable requirements of NSF Standard No. 2.

3.2.1 Compliance. Prior to approval of the first shipment, the contractor shall submit satisfactory evidence to the contracting officer or his authorized representative, that the bread dispenser conforms to the applicable requirements of NSF Standard No. 2.

3.2.1 NSF. Acceptable evidence of meeting the requirements of NSF shall be:

- (1) A listing in the current edition of the NSF "Listing of Food Service Equipment" and display of the NSF seal on the finished bread dispenser, or
- (2) A certification for the bread dispenser issued by NSF under their special one-time contract evaluation/certification service, or
- (3) A certified test report from a recognized independent testing laboratory acceptable to the medical department of the service for which the bread dispenser is being procured, indicating that the bread dispenser has been tested and conforms to the applicable requirements of NSF Standard No. 2.

3.3 Materials and components. Materials and components shall be as specified herein. Materials not definitely specified shall be of the quality normally used by the manufacturer in his standard commercial bread dispenser, provided the completed item complies with all provisions of this specification (see 6.3).

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3.3.1 Stainless steel. Stainless steel shall conform to any type in the 300 of ASTM A 167.

3.4 Design and construction. The dispenser shall be size 3 or size 5, as specified. Each compartment shall consist of a hinged bread chute and dispensing assembly, and have a Pullman bread loaf capacity. The bread chutes shall be fillable from the rear by lowering the hinged chute and from the front by lifting the clear acrylic front panel. The dispenser shall be equipped with a removable crumb tray and four legs adjustable from 4 inches to 5-1/2 inches (102 mm to 140 mm). When specified (see 6.2), the dispenser shall be furnished without legs. The dispenser shall be fabricated from stainless steel not less than 0.0375 inches (1 mm) thick as specified in 3.3.1.

3.4.1 Size 3. The size 3 dispenser shall have three compartments, two compartments shall be 4-3/4 inches by 4-3/4 inches (121 mm by 121 mm) and one compartment 4-3/4 inches by 5-1/2 inches (121 mm by 140 mm). The envelope dimensions without legs shall be 18 inches width by 23 inches depth by 27 inches height (457 mm by 582 mm by 686 mm).

3.4.2 Size 5. The size 5 dispenser shall have five compartments, four compartments shall be 4-3/4 inches by 4-3/4 inches (121 mm by 121 mm), and one compartment 4-3/4 inches by 5-1/2 inches (121 mm by 140 mm). The envelope dimensions without legs shall be 28-1/2 inches width, 23 inches depth by 27 inches height (724 mm by 582 mm by 686 mm).

3.5 Performance. The sliced bread shall be dispensed one slice at a time upon actuation of the dispensing lever when tested as specified in 4.4.1.

3.6 Finish. The dispenser shall be finished in accordance with the applicable requirements of NSF Standard No. 2.

3.7 Marking. Each dispenser shall be permanently and legibly marked with the manufacturer's model, name, trade name, or trademark of such known character as to be identifiable with said manufacturer.

3.8 Workmanship. Components shall be free from burrs and rough edges. Welds shall be sound, smooth, and free from fractures or fissures. Spot welds shall be free from pits, burn-throughs, and flashes. Scale and flux shall be removed. Washers or lockwashers shall be provided in accordance with standard commercial practice, and all bolts, nuts, and screws shall be drawn tight.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract, the contractor is responsible for the performance of all inspection requirements

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as specified herein. Except as otherwise specified in the contract, 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 supplies and services conform to prescribed requirements.

4.2 Quality conformance inspection. Except as otherwise specified herein, sampling for inspection shall be performed in accordance with MIL-STD-105.

4.2.1 Component and material inspection. In accordance with 4.1, components and materials shall be inspected in accordance with all the requirements of referenced specifications, standards, and drawings unless otherwise excluded, amended, modified, or qualified in this specification or applicable purchase document.

4.2.2 End item inspection. The lot shall consist of all bread dispensers of one size offered for inspection at one time. The sample unit shall be a completely fabricated bread dispenser.

4.2.2.1 Visual examination. The bread dispenser shall be examined for defects classified in table I. The inspection level shall be II with an AQL of 2.5, expressed in terms of defects per hundred units.

TABLE I. Classification of visual defects

| <u>Examine</u> | <u>Defect</u> |
|------------------------------|--|
| Standard product | Item not in accordance with manufacturers standard product except for changes necessary to comply with specifications requirements |
| Finish | Any part corroded Any part soiled |
| Construction and workmanship | Any component missing Any burr or rough edge Any component not in proper alignment or not located as specified Functioning component that is inoperative or will not operate as intended Bread chute not refillable from front or rear |

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

| <u>Examine</u> | <u>Defect</u> |
|---------------------------------------|--|
| Construction and workmanship (cont'd) | Front panel not clear acrylic plastic Crumb tray not removable Not equipped with four adjustable legs |
| Welding | Missing, incomplete, or cracked Scale and flux deposits not removed Weld not smooth or contains pits or burn-through |
| Thread fasteners | Missing, broken, or stripped Washers and lockwashers not provided where required |
| Identification marking | Missing, incomplete, not legible |

4.2.2.2 Dimensional examination. Examination shall be made of the end item to determine compliance with the dimensional requirements of this specification. Any dimension that is not within the specified requirements shall be classified a defect. The inspection level shall be S-2 with an AQL of 6.5 defects, expressed in terms of defects per hundred units.

4.2.2.3 End item testing. One dispenser from the lot shall be tested as specified in 4.4.1. Any nonconformance shall be cause for rejection of the lot.

4.2.3 Packaging inspection. An examination shall be made to determine whether the preservation-packaging, packing and marking complies with section 5. Defects shall be scored as listed in table II. The sample unit shall be one shipping container fully prepared for delivery, except that it need not be closed. The lot size shall be the number of shipping containers in the end item inspection lot. The inspection level shall be S-2 and the AQL shall be 2.5 defects per hundred units.

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TABLE II. Inspection of packaging

| <u>Examine</u> | <u>Defect</u> |
|--------------------|---|
| Marking (exterior) | Omitted; incorrect; illegible; of improper size, location, sequence or method of application. |
| Materials | Any component missing, damaged or not as specified. |
| Workmanship | Contents of container not immobilized as specified. Bulged or distorted containers. |
| Content | Number of product per shipping container is more than specified. |

4.2.3.1 Inspection of shipping containers. When shipping containers are required to comply with PPP-B-621 or PPP-B-636, inspection for defects in the closure, reinforcing and waterproofing (when applicable), shall be in accordance with appendix of the applicable box specification.

4.3 Certificate examination. Certificates of compliance, certified test reports, approval labels or listing marks for codes and standards, as applicable, that are submitted as proof of compliance with the specification requirements shall be examined and validated.

4.4 Test method.

4.4.1 Performance test. The size 3 dispenser shall be loaded with one sliced Pullman loaf of fresh white bread, one sliced standard loaf of fresh rye bread, and one sliced standard loaf of fresh whole wheat bread. The rye bread shall be placed in the 4-3/4 inches by 5-1/2 inches (121 mm by 140 mm) compartment. On the size 5 dispenser add an additional standard loaf of fresh whole wheat bread and a Pullman loaf of fresh white bread. Each loaf of bread with end slices removed shall be run through the dispenser five times with a malfunction rate not to exceed 4 percent. Malfunctions are defined to be the act of no dispensing or double dispensing upon the actuation of the dispensing lever. Any nonconformance shall constitute failure of this test.

5. PACKAGING

5.1 Preservation-packaging. Preservation-packaging shall be level A or C, as specified (see 6.2).

5.1.1 Level A. Each dispenser shall be preserved-packaged in accordance with method III of MIL-P-116.

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5.1.2 Level C. Each dispenser shall be preserved-packaged to afford adequate protection against physical damage during shipment from the contractor to the first receiving activity. The package and the quantity per package shall be the same as that normally used by the contractor for retail distribution.

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

5.2.1 Level A packing. One dispenser, preserved-packaged as specified in 5.1, shall be packed in a snug-fitting shipping container conforming to style RSC-L, grade V2s of PPP-B-636; overseas type, style A or J, grade A or B, type 2 load of PPP-B-601; or class 2, style 2 or 4, grade A or B, type 2 load of PPP-B-621. The inside of each fiberboard container shall be fitted with a box liner conforming to type CF, class weather-resistant, variety DW, grade V15c of PPP-B-636. The contents of each container shall be cushioned, blocked or braced within the container to prevent movement while in transit. Each fiberboard container shall be closed in accordance with method III, waterproofed in accordance with method V and reinforced as specified in the appendix of PPP-B-636. Each wood container shall be waterproofed with a sealed case liner conforming to type I or II, grade C of MIL-L-10547 and be closed and reinforced in accordance with the appendix of the applicable container specification.

5.2.2 Level B. One dispenser, preserved-packaged as specified in 5.1, shall be packed in a snug-fitting shipping container conforming to style RSC-L, type CF (variety SW) or SF, class domestic, grade 350 of PPP-B-636. The inside of each shipping container shall be fitted with a box liner conforming to type CF, class domestic, variety DW, grade 275 of PPP-B-636. The contents of each container shall be cushioned, blocked or braced within the container to prevent movement while in transit. Each fiberboard container shall be closed in accordance with method II as specified in the appendix of PPP-B-636.

5.2.2.1 Weather-resistant fiberboard container. When specified (see 6.2), the fiberboard shipping container shall be a grade V11c or V13c fiberboard box fabricated in accordance with PPP-B-636 and closed in accordance with method III as specified in the appendix of PPP-B-636.

5.2.3 Level C packing. Each dispenser, preserved-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. The quantity per shipping container shall be the same as that normally used by the contractor for retail distribution. Containers shall comply with the Uniform Freight Classification or National Motor Freight Classification, as applicable.

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

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6. NOTES

6.1 Intended use. The bread dispensers covered by this specification are intended for counter top use to dispense sliced bread.

6.2 Ordering data. Procurement documents should specify the following:

- (a) Title, number and date of this specification.
- (b) Size of bread dispenser required (see 1.2).
- (c) When legs are not required (see 3.4).
- (d) Selection of the applicable levels of preservation-packaging and packing (see 5.1 and 5.2).
- (e) When weather-resistant grade fiberboard shipping containers are required for level B packing (see 5.2.2.1).

6.3 Recycled material. It is encouraged that recycled material be used when practical as long as it meets the requirements of this specification (see 3.3).

6.4 Metric equivalents. Metric equivalents, indicated in parentheses throughout this document, are based on practices, conversion factors, and symbols specified in ASTM E 380 Standard for Metric Practice, and are for information only. In each instance, the value stated in US customary units shall be controlling.

6.5 Supersession data. This specification includes the requirements of US Army Natick Research and Development Command Interim Purchase Description IP/DES S-1-7, dated 29 April 1977.

Custodias:

Army - GL
Navy - YD
Air Force - 99

Preparing activity:

Army - GL
Project No. 7320-0665

Review activities:

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