HH-P-151F
July 19, 1985
SUPERSEDING
HH-P-151e
June 22, 1961

FEDERAL SPECIFICATION

PACKING; RUBBER-SHEET, CLOTH-INSERT

This specification was approved by the Assistant Administrator, Office of Federal Supply and Services, General Services Administration, for the use of all Federal agencies.

1. SCOPE AND CLASSIFICATION

1.1 Scope. Cloth-insert, rubber-sheet packing covered by this specification is intended for flange joints for water or brine services up to 250 pounds pressure and for ventilating systems.

1.2 Classification.

1.2.1 Classes. Packing covered by this specification shall be of the following classes as specified (see 6.2.1):

Class 1 - Commercial.
Class 2 - Polychloroprene rubber.
Class 3 - Styrene-butadiene rubber.
Class 4 - Acrylonitrile-butadiene rubber.

1.2.2 Thickness. Packing covered by this specification shall be of the thickness specified (see 6.2.1).

2. APPLICABLE DOCUMENTS

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

Federal Specifications

A-A-1683 - Tape, Pressure-Sensitive Adhesive (Packaging, Paper).
PPP-B-585 - Boxes, Wood, Wirebound.
PPP-B-601 - Boxes, Wood, Cleated-Plywood.
PPP-B-621 - Boxes, Wood, Nailed and Lock-Corner.
PPP-B-636 - Box, Shipping, Fiberboard.
PPP-B-640 - Boxes, Fiberboard, Corrugated, Triple-Wall.
PPP-B-1055 - Barrier Material, Waterproof, Flexible.

FSC 5330

Federal Standards

FED-STD-191 - Textile Test Methods.
FED-STD-601 - Rubber: Sampling and Testing.

(Activities outside the Federal Government may obtain copies of Federal specifications, standards and commercial item descriptions as outlined under General Information in the Index of Federal Specifications, Standards and Commercial Item Descriptions. The Index, which includes cumulative bimonthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

(Copies of listed federal and military standards, specifications, Commercial Item Descriptions (CIDs), handbooks and associated documents listed in the Department of Defense Index of Specifications and Standards (DoDISS), should be obtained from the DoD Single Stock Point, Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120. Copies of industry association documents should be obtained from the sponsor. Copies of all other listed documents should be obtained from the contracting activity or as directed by the contracting officer.

(Federal Government activities may obtain copies of Federal standardization documents and the Index of Federal Specifications, Standards and Commercial Item Descriptions from established distribution points in their agencies.)

Military Standards

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

(Copies of military standards 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 a specific issue is identified, the issue in effect on date of invitation for bids or request for proposal shall apply.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

D 395 - Test Methods for Rubber Property - Compression Set. (DoD adopted)
D 412 - Test Methods for Rubber Properties in Tension. (DoD adopted)
D 413 - Test Methods for Rubber Property - Adhesion to Flexible Substrate. (DoD adopted)
D 573 - Test Methods for Rubber - Deterioration in an Air Oven. (DoD adopted)
D 865 - Test Methods for Rubber-Deterioration by Heating in Air (Test Tube Enclosure). (DoD adopted)
D 3183 - Practice for Rubber - Preparation of Pieces for Test Purposes from Products. (DoD adopted)
D 3951 - Standard Practice for Commercial Packaging. (DoD adopted)

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

(Industry 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 6.2.1), a sample shall be subjected to first article inspection (see 4.3 and 6.3).

3.2 Material. The packing shall consist of alternate layers of rubber compound and cotton fabric. Fabric shall be completely immersed in elastomer so that each fiber is coated with rubber.

3.2.1 Rubber classes.

3.2.1.1 Class 1. The rubber compound used in the manufacture of class 1 packing shall be natural rubber, synthetic rubber (other than butyl) or a mixture of natural and synthetic rubber other than butyl.

3.2.1.2 Class 2. The rubber compound used in the manufacture of class 2 packing shall utilize polychloroprene as the base material.

3.2.1.3 Class 3. The rubber compound used in the manufacture of class 3 packing shall utilize a copolymer product of butadiene and styrene as the base material.

3.2.1.4 Class 4. The rubber compound used in the manufacture of class 4 packing shall utilize a copolymer product of butadiene and acrylonitrile as the base material.

3.2.2 Fabric. Cotton fabric used as the cloth insertion shall be a chafer duck in accordance with 3.4. The fabric shall be evenly and firmly woven and as free from unsightly defects, dirt, knots, lumps and irregularities of twist as is consistent with good manufacturing practice.

3.3 Construction. Both faces of the packing shall be of rubber. The layers of rubber compound shall be of equal and uniform thickness. There shall be one ply of fabric in packings less than 1/8-inch thick. Packings 1/8-inch thick and over shall be made with one ply of fabric for each 1/16-inch thickness.

3.4 Fabric insert. The physical properties of the fabric insert shall be as specified in 3.4.1 and 3.4.2.

3.4.1 Weight. The weight of the fabric shall be 10 to 12 ounces per square yard (see 4.5.1.1).

3.4.2 Breaking strength. The breaking strength of the fabric shall be not less than 125 pounds when tested as specified in 4.5.1.2.

3.5 Rubber compound. The physical properties of the rubber compound shall be as specified in 3.5.1 through 3.5.5.2.

3.5.1 Tensile strength.

3.5.1.1 Before aging. The tensile strength of the rubber compound before aging shall be not less than 1500 pounds per square inch (lb/in^2) (see 4.5.2.1).

3.5.1.2 After aging. The tensile strength of the rubber compound after accelerated aging as specified in 4.5.2.3 shall be not less than 80 percent of the tensile strength of the unaged rubber compound.

3.5.2 Ultimate elongation. The ultimate elongation of the rubber compound before aging shall be not less than 250 percent (see 4.5.2.2).

3.5.3 Compression set. The compression set of the rubber compound determined by the method specified in 4.5.2.4 shall be not more than 25 percent.

3.5.4 Resistance to water.

3.5.4.1 Swelling. The increase in volume of the rubber compound in water shall not exceed 20 percent when tested as specified in 4.5.2.5.1.

3.5.4.2 Extraction. The amount of water-soluble matter in the rubber compound shall not exceed 0.5 percent when tested as specified in 4.5.2.5.2.

3.5.5 Resistance to oils.

3.5.5.1 Class 2, polychloroprene rubber. The increase in volume of the rubber compound in class 2 packing shall not exceed 100 percent when tested as specified in 4.5.2.6.1.

3.5.5.2 Class 4, acrylonitrile-butadiene rubber. The increase in volume of the rubber compound in class 4 packing shall not exceed 40 percent when tested as specified in 4.5.2.6.2.

3.6 Adhesive bond. When tested as specified in 4.5.3, the bond strength between rubber layers and fabric insertions shall be not less than 15 pounds per inch of width.

3.7 Width and weight of rolls. Unless otherwise specified (see 6.2.1), packing shall be furnished in rolls 35 to 44 inches wide with trimmed edges and weighing not less than 100 pounds (see 4.5.4).

3.8 Thickness. The thickness of the packing at any point shall not differ from the specified thickness by more than the following amounts (see 4.5.5):

For thickness 3/32 inch or less	± 0.016 inch
For thickness over 3/32 inch	± 0.02 inch

3.9 Workmanship. The surface shall be smooth and free from pits, lumps and other defects which may affect the serviceability of the packing (see 4.5.6).

4. QUALITY ASSURANCE PROVISIONS

4.1 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 purchase 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.

4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:

(a) First article inspection (see 4.3).
(b) Quality conformance inspection (see 4.4).

4.3 First article inspection. First article inspection shall consist of the tests and examinations specified in table I and 4.5. Test data shall be recorded (see 6.2.2).

TABLE I. First article inspection.

Characteristic	Requirement	Test paragraph
Fabric insert:		
Weight	3.4.1	4.5.1.1
Breaking strength	3.4.2	4.5.1.2
Rubber compound:		
Tensile strength	3.5.1	4.5.2.1
Ultimate elongation	3.5.2	4.5.2.2
Accelerated aging	3.5.1.2	4.5.2.3
Compression set	3.5.3	4.5.2.4
Resistance to water	3.5.4	4.5.2.5
Swelling	3.5.4.1	4.5.2.5.1
Extraction	3.5.4.2	4.5.2.5.2
Resistance to oils	3.5.5	4.5.2.6
Class 2	3.5.5.1	4.5.2.6.1
Class 4	3.5.5.2	4.5.2.6.2
Adhesive bond	3.6	4.5.3
Width	3.7	4.5.4
Thickness	3.8	4.5.5
Workmanship	3.9	4.5.6

4.3.1 Sampling for first article inspection.

4.3.1.1 Lot. For the purpose of sampling, a lot shall consist of all packing of the same type and thickness produced under essentially the same conditions.

4.3.1.2 Sampling for examination. A random sample of rolls shall be selected from each lot of packing for the examination specified in 4.3.2 in accordance with MIL-STD-105 at inspection level II. The acceptance quality level (AQL) shall be 2.5 percent defective.

4.3.1.3 Sampling for tests. Samples of packing shall be selected from each lot in accordance with MIL-STD-105, at inspection level L4, for the tests specified in 4.3.2. The AQL shall be 4.0 percent defective. Each sample piece shall be 12 by 12 inches, or 3 feet long by ordered width.

4.3.2 Examination. Each of the sample rolls selected in accordance with 4.3.1.2 shall be surface examined, measured and weighed to determine conformance with the requirements of this specification which do not require tests. Any roll in the sample containing one or more visual or dimensional defects shall not be offered for delivery, and if the number of defective rolls in any sample exceeds the acceptance number for that sample, this shall be cause for rejection of the lot represented by the sample.

4.3.3 Tests. The samples selected in accordance with 4.3.1.3 shall be subjected to the tests specified in table I to determine conformance with this specification. If any of the samples tested is found not to be in conformance with this specification, this shall be cause for rejection of the entire lot.

4.4 Quality conformance inspection. Quality conformance inspection shall consist of the tests and examinations specified in table II. Test report data shall be recorded as specified in 6.4 and 6.4.1.

TABLE II. Quality conformance inspection.

Characteristic	Requirement	Test paragraph
Fabric insert:		
Weight	3.4.1	4.5.1.1
Breaking strength	3.4.2	4.5.1.2
Rubber compound:		
Tensile strength	3.5.1	4.5.2.1
Ultimate elongation	3.5.2	4.5.2.2
Accelerated aging	3.5.1.2	4.5.2.3
Compression set	3.5.3	4.5.2.4
Resistance to water	3.5.4	4.5.2.5
Swelling	3.5.4.1	4.5.2.5.1
Extraction	3.5.4.2	4.5.2.5.2
Resistance to oils	3.5.5	4.5.2.6
Class 2	3.5.5.1	4.5.2.6.1
Class 4	3.5.5.2	4.5.2.6.2
Adhesive bond	3.6	4.5.3

TABLE II. Quality conformance inspection. - Continued

Characteristic	Requirement	Test paragraph
Width	3.7	4.5.4
Thickness	3.8	4.5.5
Workmanship	3.9	4.5.6

4.4.1 Sampling for quality conformance.

4.4.1.1 Lot. Unless otherwise specified (see 6.2.1), the lot shall be formed in accordance with MIL-STD-105.

4.4.1.2 Sampling for inspection. Unless otherwise specified (see 6.2.1), the sample for inspection shall be taken in accordance with MIL-STD-105, inspection level II. The unit for inspection shall be a roll.

4.4.1.3 Sampling for test.

4.4.1.3.1 Packing. Unless otherwise specified (see 6.2.1), samples of packing shall be taken for tests in accordance with MIL-STD-105. The lot size and number of samples shall be as specified in table III.

TABLE III. Sampling for tests.

Number of units (rolls) in lot	Number of test units	Acceptance number (test units nonconforming)	Rejection number (test units nonconforming)
1 to 2	1	0	1
3 to 5	2	0	1
6 to 10	3	0	1
11 to 20	4	0	1
21 to 40	5	0	1
41 to 80	6	0	1
81 and over	8	1	2

4.4.1.3.2 Fabric. Unless otherwise specified (see 6.2.1), the contractor shall furnish with each delivery of packing a piece of fabric 12 by 24 inches taken from the lot of fabric used in the manufacture of the packing delivered.

4.4.2 Compliance criteria.

4.4.2.1 Inspection. Inspection requirements shall be as specified in 4.4.2.1.1 through 4.4.2.1.2.

4.4.2.1.1 Packing. Compliance of the lot with requirements for which inspection was made shall have an AQL of 2.5 percent defective when sampled in accordance with 4.4.1.2.

4.4.2.1.2 Fabric. If the sample of fabric fails to meet the requirements for which inspection was made, the lot of packing represented by the sample shall be considered as having failed to meet the requirements of this specification.

4.4.2.2 Tests. Test requirements shall be as specified in 4.4.2.2.1 through 4.5.2.2.2.

4.4.2.2.1 Packing. Any test unit in the sample failing to satisfy the requirements for which tests were made shall be considered defective. If the number of defective test units in the sample exceeds the acceptance number for that sample specified in table III, the entire lot of packing from which the sample was taken shall be considered to have failed to meet the requirements of this specification.

4.4.2.2.2 Fabric. If the sample of fabric fails to meet either of the requirements for which tests were made, the lot of packing represented by the sample shall be considered as having failed to meet the requirements of this specification.

4.5 Test methods. Each test unit of the packing in the sample (see 4.4.1.3.1), shall be subjected to the tests specified in 4.5.1 through 4.5.6. The rubber shall be separated from the fabric as specified in ASTM D 3183 for tests specified in 4.5.2. The sample of fabric shall be subjected to the tests specified in 4.5.1.

4.5.1 Fabric.

4.5.1.1 Weight. The sample of fabric shall be tested for weight as specified in method 5041 of FED-STD-191 (see 3.4.1).

4.5.1.2 Breaking strength. The breaking strength of the fabric in the packing shall be determined as specified in method 5100 or 5102 of FED-STD-191 as applicable (see 3.4.2).

4.5.2 Rubber compound.

4.5.2.1 Tensile strength. The tensile strength of the rubber compound in the packing shall be determined as specified in ASTM D 412. Die C or E shall be used for cutting the specimen (see 3.5.1).

4.5.2.2 Ultimate elongation. The ultimate elongation of the rubber compound in the packing shall be determined as specified in ASTM D 412. Die C or E shall be used for cutting the specimen (see 3.5.2).

4.5.2.3 Accelerated aging. The rubber compound shall be exposed to accelerated aging as specified in ASTM D 573 or D 865 except that:

(a) Classes 1 and 3 shall be exposed at a temperature of 70 ± 2 degrees Celsius (°C) (158 ± 3.6 degrees Fahrenheit (°F)) for 70 hours.
(b) Classes 2 and 4 shall be exposed at a temperature of 100 ± 2°C (212 ± 3.6°F) for 70 hours.

After accelerated aging, the compound shall be retested for tensile strength. The change in tensile strength shall be used to determine the amount of deterioration due to aging (see 3.5.1.2).

4.5.2.4 Compression set. The compression set of the rubber compound in the packing shall be determined as specified in ASTM D 395, method B except that:

(a) The thickness of the specimen shall be 0.25 ± 0.005 inch.
(b) The limitation of 7 plies does not apply.
(c) Classes 1 and 3 packing shall be exposed at a temperature of 70 ± 2°C (158 ± 3.6°F) for 22 hours.
(d) Classes 2 and 4 shall be exposed at a temperature of 100 ± 2°C (212 ± 3.6°F) for 22 hours (see 3.5.3).

4.5.2.5 Resistance to water (see 3.5.4).

4.5.2.5.1 Swelling. The change in volume of the rubber compound in the packing shall be determined as specified in method 6211 of FED-STD-601 (see 3.5.4.1).

4.5.2.5.2 Extraction. The amount of water soluble material in the rubber compound in the packing shall be determined as specified in method 6621 of FED-STD-601 except that the residue shall be dried at a temperature of 50 ± 2°C (122 ± 3.6°F) (see 3.5.4.2).

4.5.2.6 Resistance to oils (see 3.5.5).

4.5.2.6.1 Class 2, polychloroprene rubber. The change in volume of the rubber compound in class 2 packing shall be determined as specified in method 6211 of FED-STD-601 except that (1) the time of immersion shall be 70 ± 1/4 hours, (2) the temperature shall be 100 ± 2°C (212 ± 3.6°F), and (3) the immersion medium shall be medium #3 of method 6001 as specified in FED-STD-601 (see 3.5.5.1).

4.5.2.6.2 Class 4, acrylonitrile-butadiene rubber. The change in volume of the rubber compound in class 4 packing shall be determined as specified in 4.5.2.6.1 (see 3.5.5.2).

4.5.3 Adhesive bond. The bond strength between rubber layers and fabrics shall be determined as specified in ASTM D 413 (see 3.6).

4.5.4 Width. The minimum and maximum width of the packing shall be determined as specified in method 2121 of FED-STD-601 (see 3.7).

4.5.5 Thickness. The minimum and maximum thickness of the packing shall be determined as specified in ASTM D 413 (see 3.8).

4.5.6 Workmanship. A portion of each roll in the sample for inspection at least 8 feet in length and full width of the packing shall constitute the material to be subjected to inspection. The portion inspected shall not include any of the material in the first 3 linear feet from either end of the roll (see 3.9).

4.6 Examination of prepartion for delivery. The packaging, packing and marking of the rubber packing shall be examined to determine compliance with the requirements of section 5 of this specification.

5. PREPARATION FOR DELIVERY

5.1 Packaging.

(The packaging requirements specified herein apply only for direct Government acquisition.)

5.1.1 Preservation. Preservation shall be level A, C or commercial, as specified (see 6.2.1).

5.1.2 Level A. Rolls shall be individually wrapped with waterproof paper in accordance with PPP-B-1055 class C-2(a) and seams and edges sealed with pressure sensitive water resistant tape in accordance with A-A-1683. A minimum tape overlap of 2 inches shall be provided at all edges.

5.1.3 Level C. Rolls shall be individually wrapped with an opague wrapping paper or opague plastic film and secured to prevent unraveling.

5.1.4 Commercial. Commercial packaging shall be in accordance with ASTM D 3951.

5.2 Packing. Packing shall be level A, B, C or commercial, as specified (see 6.2.1).

5.2.1 Level A. Rolls preserved as specified in 5.1 shall be packed in wood, wire bound; wood, cleated-plywood or nailed wood boxes in accordance with PPP-B-585 class 3, PPP-B-601 overseas type, or PPP-B-621 class 2 respectively, with box selection at the option of the contractor. Gross weight of boxes shall not exceed 200 pounds. Box closures and strapping shall be as specified in the box specifications and the appendix thereto. Boxes shall be closefitting and strapping shall be zinc-coated (galvanized).

5.2.2 Level B. Rolls preserved as specified in 5.1 shall be packed in fiberboard; wood, wirebound; wood, cleated-plywood or nailed wood boxes in accordance with PPP-B-636 weather-resistant, PPP-B-640 weather resistant, PPP-B-585 class 2 or 3, PPP-B-601 domestic type or PPP-B-621 class 1 respectively, with box selection at the option of the contractor. Gross weight of wood and woodcleated boxes shall not exceed 200 pounds; fiberboard boxes shall not exceed the weight limitations of the box specification. Box closures and strapping shall be as specified in the box specification and the appendix thereto, except that method V closures shall apply for PPP-B-636 boxes.

5.2.3 Level C. Rolls preserved as specified in 5.1 shall be packed in boxes as specified in 5.2.2 except that fiberboard boxes may be of the domestic non-weather resistant class and class 1 boxes of PPP-B-585 are also acceptable. Gross weight of wood and wood-cleated boxes shall not exceed 200 pounds; fiberboard boxes shall not exceed the weight limitations of the box specification. Box closures and strapping shall be as specified in the applicable box specification and appendix thereto, except that method I closure shall apply for PPP-B-636 boxes.

5.2.4 Commercial. Commercial packing shall be in accordance with ASTM D 3951.

5.3 Marking. In addition to any special marking required (see 6.2.1), interior packs and exterior shipping containers shall be marked in accordance with MIL-STD-129 for levels A, B and C and shall include bar code marking. Commercial interior packs and shipping containers shall be marked in accordance with ASTM D 3951 and shall also include bar code marking as specified in MIL-STD-129.

6. NOTES

6.1 Intended use. Packing covered by this specification is intended for use as follows:

Class 1 - When the class of rubber and resistance to oil are not important, the maximum use temperature is a nominal 200°F.
Class 2 - When medium resistance to swelling in petroleum base hydrocarbons is desired, the maximum use temperature is a nominal 200°F.
Class 3 - When synthetic rubber is desired and resistance to swelling in petroleum base hydrocarbons is not essential, the maximum use temperature is a nominal 200°F.
Class 4 - When high resistance to swelling in petroleum base hydrocarbons is desired, the maximum use temperature is a nominal 250°F.

6.2 Ordering data.

6.2.1 Acquisition requirements. Acquisition documents should specify the following:

(a) Title, number and date of this specification.
(b) Quantity of packing desired in square yards.
(c) Class and thickness (see 1.2).
(d) First article sample, if required (see 3.1).
(e) Width and weight of rolls, if other than indicated (see 3.7).
(f) Sampling and fabric sample, if other than indicated (see 4.4.1).
(g) Level of preservation and packing required, or when commercial preservation and packing required (see 5.1 and 5.2).
(h) Special marking required (see 5.3).

6.2.2 Data requirements. When this specification is used in an acquisition which incorporates a DD Form 1423, Contract Data Requirements List (CDRL), the data requirements identified below shall be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved CDRL incorporated into the contract. When the provisions of FAR 52.227-7031 are invoked and the DD Form 1423 is not used, the data specified below shall be delivered by the contractor in accordance with the contract or purchase order requirements. Deliverable data required by this specification is cited in the following paragraph.

Paragraph no.	Data requirement title	Applicable DID no.	Option
4.3.1	First article inspection report	UDI-T-23790	----

(Data item descriptions related to this specification, and identified in Section 6 will be approved and listed as such in DoD 5000.19L., Vol. II, AMSDL. Copies of data item descriptions required by the contractors in connection with specific acquisition functions should be obtained from the Naval Publications and Forms Center or as directed by the contracting officer.)

6.2.2.1 The data requirements of 6.2.2 and any task in sections 3, 4, or 5 of the specification required to be performed to meet a data requirement may be waived by the contracting/acquisition activity upon certification by the offeror that identical data were submitted by the offeror and accepted by the Government under a previous contract for identical item acquired to this specification. This does not apply to specific data which may be required for each contract, regardless of whether an identical item has been supplied previously (for example, test reports).

6.2.2.2 Test report data. The contract will specify that first article test reports shall be prepared by the manufacturer and sent to the contracting activity.

6.3 First article inspection. Invitations for bids should provide that the Government reserves the right to waive the requirement for samples for first article inspection as to those bidders offering a product which has been previously acquired or tested by the Government, and that bidders offering such products, who wish to rely on such production or test, must furnish evidence with the bid that prior Government approval is presently appropriate for the pending contract.

6.4 Test report data. Quality conformance inspection (see 4.4) test reports shall be prepared by the manufacturer and sent to both the contracting activity and Department of the Navy, Naval Sea Systems Command, Washington, DC 20362-5101. Attn: Materials and Assurance Engineering Officer.

6.4.1 Preparation of test report. The contractor shall include his internal quality conformance test report with the shipment of products to the consignee. The report shall list values obtained on all inspection tests required by specification of contract (quantitative values where method provides) and shall be signed by the contractor's representative (see 4.4).

6.5 Transportation description. Transportation description and minimum weights applicable to this commodity are:

Rail:

Packing, rubber or gum compound, in the piece, made of rubber, gum or similar compounds.

Carload minimum weight 30,000 pounds.

Motor:

Packing, rubber or gum compound, in the piece, made of rubber, gum or similar compounds.

Motor volume minimum weight 30,000 pounds.

MILITARY INTERESTS

Custodians

Army - AR
Navy - SH
Air Force - 82

Review Activity

DLA - IS

User Activity

Army - AT, ME

CIVIL AGENCY COORDINATING ACTIVITIES:

GSA-FSS

PREPARING ACTIVITY:

Navy - SH

DOD project 5330-0586

INSTRUCTIONS: In a continuing effort to make our standardization documents better, the DoD provides this form for use in submitting comments and suggestions for improvements. All users of military standardization documents are invited to provide suggestions. This form may be detached, folded along the lines indicated, taped along the loose edge *(DO NOT STAPLE)*, and mailed. In block 5, be as specific as possible about particular problem areas such as wording which required interpretation, was too rigid, restrictive, loose, ambiguous, or was incompatible, and give proposed wording changes which would alleviate the problems. Enter in block 6 any remarks not related to a specific paragraph of the document. If block 7 is filled out, an acknowledgement will be mailed to you within 30 days to let you know that your comments were received and are being considered.

NOTE This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions – Reverse Side)

1 DOCUMENT NUMBER	2 DOCUMENT TITLE
MH-P-151F	

3a. NAME OF SUBMITTING ORGANIZATION	4 TYPE OF ORGANIZATION *(Mark one)*
	☐ VENDOR
b. ADDRESS *(Street, City, State, ZIP Code)*	☐ USER
	☐ MANUFACTURER
	☐ OTHER *(Specify)* _____

5 PROBLEM AREAS

a. Paragraph Number and Wording

b. Recommended Wording

c. Reason/Rationale for Recommendation

6. REMARKS

7a. NAME OF SUBMITTER *(Last, First, MI)* – Optional	b. WORK TELEPHONE NUMBER *(Include Area Code)* – Optional
c. MAILING ADDRESS *(Street, City, State, ZIP Code)* – Optional	8. DATE OF SUBMISSION *(YYMMDD)*

DD FORM 82 MAR 1426 PREVIOUS EDITION IS OBSOLETE