

MIL-G-20241D
 12 March 1980
 SUPERSEDING
 MIL-G-20241C
 17 May 1963
 (See 6.5)

MILITARY SPECIFICATION

GASKET MATERIAL, WOOL FELT, IMPREGNATED, ADHESIVE, PRESSURE-SENSITIVE

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

1. SCOPE

1.1 Scope. This specification covers gasket material (symbol 2291) for use in joints of nonwatertight and watertight ventilation ducts, and as a faying or insulating material between dissimilar metals.

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-566 - Boxes, Folding, Paperboard.
- PPP-B-576 - Boxes, Wood, Cleated, Veneer, Paper Overlaid.
- PPP-B-585 - Boxes, Wood, Wirebound.
- PPP-B-591 - Boxes, Shipping, Fiberboard, Wood-Cleated.
- 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-665 - Boxes: Paperboard, Metal Edged and Components.
- PPP-B-676 - Boxes, Set-Up.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Naval Sea Systems Command, SEA 3112, Department of the Navy, Washington, DC 20362 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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FEDERAL - Continued

PPP-T-76 - Tape, Pressure-Sensitive Adhesive
Paper, (For Carton Sealing).

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MIL-L-10547 - Liners, Case, and Sheet, Overwrap;
Water-Vaporproof or Waterproof,
Flexible.

STANDARDS

FEDERAL

FED-STD-151 - Metals; Test Methods.
FED-STD-191 - Textile Test Methods.

MILITARY

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

(Copies of specifications, standards, drawings, and publica-
tions required by contractors in connection with specific acqui-
sition functions should be obtained from the contracting 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 invi-
tation for bids or request for proposal shall apply.

NATIONAL MOTOR FREIGHT TRAFFIC ASSOCIATION, INC. AGENT
National Motor Freight Classification

(Application for copies should be addressed to the National
Motor Freight Traffic Association, Inc., ATA TRAFFIC Dept. 1616
"P" Street, N.W., Washington, DC 20036.)

UNIFORM CLASSIFICATION COMMITTEE AGENT
Uniform Freight Classification Ratings, Rules
and Regulations

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

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

3. REQUIREMENTS

3.1 Qualification. Gasket material furnished under this
specification shall be products which are qualified for listing

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on the applicable qualified products list at the time set for opening of bids (see 4.3 and 6.4).

3.2 Material.

3.2.1 Carrier. The carrier shall be commercially available pressed wool felt. It shall contain a minimum of 75 percent wool fibers. The wool fibers shall be fleece, pulled wool, wool noil, reprocessed wool, reused wool, or combination thereof. A maximum of 25 percent of the carrier may be fibers other than wool.

3.2.2 Impregnating compound. The carrier shall be impregnated with a nondrying, nonoxidizing, anticorrosive, chromated compound.

3.2.3 Adhesive. The gasket material shall be coated, on one side only, with a thin film of pressure-sensitive adhesive.

3.2.4 Recovered materials. Unless otherwise specified herein, all equipment, material, and articles incorporated in the products covered by this specification shall be new and shall be fabricated using materials produced from recovered materials to the maximum extent practicable without jeopardizing the intended use. The term "recovered materials" means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. None of the above shall be interpreted to mean that the use of used or rebuilt products is allowed under this specification unless otherwise specifically specified.

3.3 Dimensions. The gasket material shall be furnished in the dimensions as shown in table I, as specified (see 6.2.1).

TABLE I. Dimensions.

Thickness (nominal) (see 4.6.2)	Thickness tolerances		Length ^{1/,2/}	Width ^{3/}
	Minimum	Maximum		
Inch	Inch	Inch	Feet	Inches
1/16	0.050	0.075	100	1/4, 1, 1-1/4, 1-1/2, 3, 36, 60
1/8	.090	.140	50	1/4, 1, 1-1/4, 1-1/2, 3, 36, 60
1/4	.210	.280	25	36, 60

See footnotes on next page.

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- 1/Tolerance shall be plus 1 foot and minus 0 feet.
- 2/There shall be no more than one space in the 25 foot length, and no more than two splices in the 50 to 100 foot lengths for all widths.
- 3/Tolerances shall be plus or minus 1/16-inch for widths of 1 through 3 inches, and plus or minus 1/8-inch for 36- and 60-inch widths. Tolerance shall be plus or minus 1/32-inch for 1/4-inch widths.

3.4 Weight. The weight of the material shall be as shown in table II (see 4.6.3).

TABLE II. Weight.

Thickness (nominal)	Weight per square yard (maximum)
Inch	Pounds
1/16	3.0
1/8	5.0
1/4	10.0

3.5 Compound to carrier ratio. The impregnating compound to felt carrier ratio shall be not more than 4.5 (see 4.6.4).

3.6 Resistance to accelerated aging. The material, when aged as specified in 4.6.1.2, shall not become hardened or otherwise impaired in a manner which would adversely affect the serviceability.

3.7 Fire resistance. No residual flame shall exist from the specimen 2 seconds after the burner flame has been extinguished, when the material, before and after accelerated aging, is tested as specified in 4.6.5.

3.8 Compressibility. The minimum compression for the material after accelerated aging shall be not less than shown in table III (see 4.6.6).

TABLE III. Compressibility.

Thickness	Compression (minimum)
Inch	Percent
1/16	50
1/8	40
1/4	35

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3.9 Breaking strength. The average breaking strength, in pounds per 2-inch width after accelerated aging shall be not less than shown in table IV (see 4.6.7).

TABLE IV. Breaking strength.

Thickness	Breaking strength at 77°F pounds per 2-inch width (minimum)
Inch	
1/16	25
1/8	50
1/4	120

3.10 Performance. Gaskets cut from the material after accelerated aging shall adhere snugly to the work without buckling, and no leakage of air or water shall occur from a flanged joint made of the material (see 4.6.8).

3.11 Corrosion resistance. No aluminum panel of a galvanic cell test specimen prepared as described in 4.6.9 shall be corroded more than 10.0 percent of the area of the test face after 240 hours of exposure to salt spray. At no time during the 240-hour period shall the internal resistance of any cell be less than 100 microhms.

3.12 Pliability. The material shall unroll without breaking or delaminating (see 4.6.10).

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

- (a) Qualification inspection (see 4.3).
- (b) Quality conformance inspection (see 4.4).

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4.3 Qualification tests. Qualification tests shall be conducted at a laboratory satisfactory to the Naval Sea Systems Command (NAVSEA). Qualification tests shall consist of the tests specified in 4.6.1 through 4.6.10.

4.4 Quality conformance inspection.

4.4.1 Inspection lot. For purposes of sampling, a lot shall consist of not more than 20,000 square feet of gasket material of the same nominal thickness, impregnated in a single production run, and offered for delivery at one time.

4.4.2 Sampling for visual and dimensional examination. A random sample of sheets and rolls shall be selected from each lot of gasket material for the examination specified in 4.5 in accordance with MIL-STD-105 at inspection level S-2. The acceptable quality level shall be 4.0 percent defective.

4.4.3 Testing of the end item. The methods of testing specified in table V shall be followed. The values specified in section 3 apply to the average of determinations made on a sample unit for test purposes as specified in the applicable test methods. The sample unit shall be 2 square yards (minimum 36-inches wide) of treated felt prior to cutting into strips and 1 square foot of untreated felt for use in compound to carrier ratio test.

TABLE V. Tests to be performed on felt prior to cutting into strips.

Character-istics	Requirement	Test	Number of determi-nations per sample unit	Results
Weight, (pounds per square yard (lbs/yd ²))	Table II	4.6.3	3	Average of the 3 determinations to 0.01 lbs/yd ²
Compound to to carrier ratio	3.5	4.6.4	1	To nearest 0.1
Compressibility	Table III	4.6.6	1	To nearest per-cent
Breaking strength	Table IV	4.6.7	8	Average of 8 determinations the nearest 1b
Thickness (inches)	Table I	4.6.2	3 specimens (5 determinations each)	Average of 3 specimens nearest 0.001 inch

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TABLE V. Tests to be performed on felt prior to cutting into strips. - Continued

Character-istics	Requirement	Test	Number of determi-nations per sample unit	Results
Impregnated compound	3.2.2	4.7	1	Certificate of compliance
Adhesive	3.2.3	4.7	1	Certificate of compliance
Resistance to accelerated aging	3.6	4.6.1.2	1	Pass or Fail
Fir resist-ance before and after accelerated aging	3.7	4.6.5	5	Average of 5 determinations nearest 1/5 second
Carrier material	3.2.1	4.7	1	Certificate of compliance

4.5 Visual and dimensional examination. Each sample roll selected in accordance with 4.4.2 shall be weighed and the results obtained shall be divided by the weight determined in 4.6.3 to verify the amount of material in each roll. The sample rolls shall be opened as far as required and the material examined for the visual defects listed in table VI. The width shall be measured at intervals of 3 feet.

TABLE VI. Classification of defects.

Categories	Defects
Critical	None defined
Major	101 Cut, hole, or tear 102 Stain or streak (adhesive compound, stain, or streak clearly visible at distance 5 feet). 103 Thin or weak place 104 Uneven impregnation 105 High, thick, or lumpy area 106 Over specified length or width 107 Under specified length or width 108 Not coated on one side only.

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TABLE VI. Classification of defects. - Continued

Categories	Defects
Major - Continued	
109	Abrasion or rub
110	Surface nappiness or glossier than adjoining normal areas (or the uncoated side)
111	Wrinkle or crease
112	Surface pucker or ripple
113	Waviness or inability to lie flat
114	Burrs, shives, seed or other naturally occurring foreign matter
115	Scalloped, cutout, narrow jagged or untrimmed edge extending 9 inches or more on a side
116	Soft area noticeably less firm than adjoining normal areas
Minor	None defined

4.6 Test procedures.4.6.1 General procedure.

4.6.1.1 Tests specified in 4.6.2 through 4.6.5 shall be conducted on the material as received.

4.6.1.2 Tests specified in 4.6.5 through 4.6.10 shall be conducted after test specimens have been exposed to circulating room air in an electrically heated oven, maintained at a temperature of $200^{\circ}\text{F} \pm 5^{\circ}\text{F}$ for a period of 48 hours.

4.6.2 Thickness. The thickness shall be measured by a dial micrometer consisting of an anvil, with a minimum diameter of 2 inches, for supporting the specimen; a circular presser foot having an area of 1 ± 0.0025 square inch (1.129 inches in diameter) acting under a dead weight load of 3.0 ± 0.1 ounces; and a dial graduated to read directly in thousandths of an inch. The anvil shall have a flat horizontal surface, and in measuring large pieces of felt, the anvil shall be in the same plane as the supporting table. The presser foot shall be of sufficient thickness to insure rigidity and the edges shall be rounded off with a radius of 0.016 ± 0.001 inch. The surfaces of the presser foot and anvil shall be parallel to within 0.001 inch. Less than 0.5 ounce shall be required to overcome friction and to produce perceptible motion of the presser foot when counterbalanced. The load shall be applied gradually and without shock.

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4.6.2.1 Procedure. Three representative specimens, each containing not less than 40 square inches, shall be cut from across the width of the felt. One specimen shall be taken from the middle of the width and each of the other two from not less than 6 inches from the edge. The thickness readings shall be taken from 10 to 15 seconds after the load is applied. Five thickness determinations shall be made on each specimen. The thickness reported shall be the average thickness of the three specimens.

4.6.3 Weight. The weight per unit of area of the material shall be determined by weighing and measuring the three conditioned test specimens on a balance accurate to 0.1 percent of the total weight. The average weight in pounds per square yard shall be used.

4.6.4 Compound to carrier ratio. The ratio of impregnating compound to felt carrier in any roll shall be defined as the value obtained by determining the difference between the weight in pounds per square yard of the impregnated gasket material and the weight in pounds per square yard of the untreated gasket material, and then dividing this difference by the weight in pounds per square yard of the untreated gasket material.

4.6.5 Fire-resistance test. Specimens 1-inch wide by 6-inches long shall be suspended vertically over a Bunsen burner. A luminous flame, adjusted to a length of 1-1/2 inches, shall be allowed to strike midpoint of the lower edge of the specimen and cover approximately 1 inch of the specimen. The specimen shall be held in this position for 10 seconds. The length of time the residual flame continues to burn after the burner flame has been extinguished shall be determined. Sample conditioning shall be in accordance with FED-STD-191, method 5903.

4.6.6 Compressibility test. Two steel plates, 2-inches wide and 6-inches long containing two 9/16-inch bolt holes centered 1-1/2 inches from either end and 1 inch from the sides shall be used for the test. The two test plates shall be bolted together without the test specimen in place and the over-all thickness of the plates determined by micrometers midway between the bolts (designate this measurement "A"). A specimen of the gasket material 2 by 6 inches shall be placed between the test plates, 1/2-inch bolts inserted and the nuts drawn up finger tight. The over-all thickness shall again be determined midway between the bolts (designate this measurement "B"). The nuts shall then be drawn up, using a torque wrench to 250 inch-pounds torque, the assembly allowed to relax for 10 minutes and the nuts again drawn up. This procedure shall be repeated until the torque is maintained at 250 inch-pounds for 10 minutes and the over-all thickness again determined midway between the bolts (designate this measurement "B₁"). The percent compressibility shall then be determined by the following equation:

$$\text{Percent compressibility} = \frac{B - B_1}{B - A} \times 100$$

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4.6.7 Breaking strength test. Eight specimens, each 2-inches wide by 10-inches long, 4 cut longitudinal and 4 cut transversely shall be used for the test. A pendulum type machine shall be used. The jaws through which the load is applied shall move at a uniform rate of $12 \pm 1/2$ inches per minute. The jaws shall have smooth flat faces with edges slightly rounded to prevent cutting. The specimen shall be conditioned for 2 hours at 77°F and immediately placed symmetrically in the jaws of the machine with the long dimension parallel to and the short dimension at right angles to the direction of application of the load. The breaking strength shall be the average of the results obtained by breaking the 8 specimens.

4.6.8 Performance test. Strips 1-inch wide shall be layed along the flange face of the lower half of the test apparatus shown on figure 1, smoothed out and butted at the corners. Remove material over the bolt holes, by any convenient method, to allow introduction of bolts. The top portion of the test apparatus shall then be placed on, and assembled with nuts drawn up by means of a torque indicating wrench to 120 inch-pounds, the assembly allowed to relax for 10 minutes and the nuts again drawn up. This procedure shall be repeated until the torque is maintained at 120 inch-pounds for 10 minutes. Air at 25 pounds per square inch gage pressure shall then be admitted to the apparatus. The air supply valves shall be closed so that any drops in pressure indicates leakage through the gasket. After a period of 2 hours, the air is then released, the changer of the apparatus half filled with water and air pressure at 25 pounds per square inch again admitted to the apparatus. The joint then shall be examined for leakage during a 2-hour period. At the conclusion of the test, the water shall be drained, the gasket removed and the condition noted.

4.6.9 Corrosion test. The galvanic cell shall consist of a steel anode and an aluminum alloy cathode each 2 by 3 by 1/8 inch, separated by the felt gasket material as shown in figure 2. The assembled cell shall be tightened to 120 pound-inch torque and checked with an ohmmeter to insure an open circuit. The outer surfaces and edges of the panel shall be given two coats of zinc chromate primer. All exposed surfaces of bolts, nuts, washers, and electrical terminals shall be protected by two coats of a natural or synthetic rubber cement. The completed cell shall be suspended in a salt spray chamber for 240 hours, using a 20 percent salt solution. The chamber and its operation shall be in accordance with FED-STD-151. The cell shall be connected electrically in series with a 1-ohm resistor and a voltage measuring device, such as a Rubicon slide-wire Wheatstone Bridge, or equal, capable of measuring to the nearest 0.0001 volt. A single cell circuit is shown in figure 3. Voltage measurements shall be made at 24 hours; first with the 1-ohm resistance in the circuit and then by taking an open circuit reading 20 minutes after removing the 1-ohm resistor. The internal resistance of the cell is calculated as follows:

$$R_{\text{internal}} = \frac{\text{Voltage of open circuit} - \text{Voltage of closed circuit}}{\text{Voltage of closed circuit}}$$

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4.6.10 Pliability. Pliability shall be determined by conditioning a full length roll, as received, and after aging as specified in 4.6.1.2 at 50°F for 24 hours and unrolling immediately after removal from the conditioning chamber.

4.7 Certificate of compliance. The contractor shall prepare a certificate of compliance in accordance with the data ordering document included in the contract (see 6.2.2).

4.8 Inspection of preparation for delivery. Sample packages and packs and the inspection of the preservation-packaging, packing and marking for shipment and storage shall be in accordance with the requirements of section 5 and the documents specified therein.

5. PACKAGING

(The preparation for delivery requirements specified herein apply only for direct Government acquisitions.)

5.1 General. Gasket material in the dimensions and form specified (see 3.3 and 6.2.1) shall have the adhesive side of the material protected with a non-adhering film, sheet, or a wax impregnated paper.

5.2 Packaging. Packaging shall be level A or C as specified (see 6.2.1).

5.2.1 Level A. Rolls of approximately 11 inches in diameter having widths of 36 and 60 inches shall be wrapped individually with not less than 40-pound basis weight kraft-paper (24 x 36-500), impregnated with wax on one side, with wax side in, and securely taped with not less than 2-inch width tape conforming to PPP-T-76. Rolls of gasket material 1/4-inch through 3 inches in width shall be separated by not less than 40-pound basis weight kraft-paper (24 x 36-500), wax impregnated.

5.2.1.1 Intermediate packaging. Unit quantities in an intermediate container shall be as specified (see 6.2.1). Intermediate containers shall conform to any of the following specifications at the option of the contractor:

Specification

PPP-B-566
PPP-B-636
PPP-B-665
PPP-B-676

Container closure and sealing shall be in accordance with the applicable container specification or appendix thereto. The gross weight of paperboard boxes shall not exceed 10-pounds; fiberboard containers shall not exceed 30-pounds.

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5.2.2 Level C. Packaging shall be sufficient to afford adequate protection against physical damage during shipment from the supply source to the first receiving activity for immediate use. This level may conform to the contractor's normal preservation-packaging methods and may be used when such meets the requirements of this level.

5.3 Packing. Packing shall be Level A, B, or C as specified (see 6.2.1).

5.3.1 Level A. Rolls, packaged as specified (see 6.2.1), shall be packed in containers conforming to any one of the following specifications at the option of the contractor:

<u>Specification</u>	<u>Classification</u>
PPP-B-576	Class 2
PPP-B-585	Class 3 use
PPP-B-591	Overseas type
PPP-B-601	Overseas type
PPP-B-621	Class 2
PPP-B-636	Class 2
PPP-B-640	Class 2

5.3.1.1 Shipping containers shall have caseliners conforming to MIL-L-10547. Caseliners shall be closed and sealed in accordance with the appendix to MIL-L-10547. Caseliners for fiberboard boxes, PPP-B-636 and PPP-B-640, may be omitted provided all center and edge seams and manufacturer's joint are sealed and waterproofed with pressure sensitive tape in accordance with the applicable fiberboard box specification or appendix thereto, with method V closure applicable to PPP-B-636. The gross weight of wood or wood-cleated boxes shall not exceed 200-pounds; fiberboard boxes shall not exceed the weight limitations of the applicable fiberboard box specification. When specified, intermediate fiberboard boxes conforming to class 2 of PPP-B-636 closed, sealed and banded as specified herein may be used as the shipping container.

5.3.2 Level B. Rolls, packaged as specified (see 6.2.1), shall be packed in containers conforming to any one of the following specifications at the option of the contractor:

<u>Specification</u>	<u>Classification</u>
PPP-B-576	Class 1
PPP-B-585	Class 1 or 2 use
PPP-B-591	Domestic type
PPP-B-601	Domestic type
PPP-B-621	Class 1
PPP-B-636	Class 1
PPP-B-640	Class 1

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5.3.2.1 Shipping containers shall be closed in accordance with the applicable box specification or appendix thereto, with method III closure applicable to PPP-B-636. The gross weight of wood or wood-created boxes shall not exceed 200-pounds; fiberboard boxes shall not exceed the weight limitations of the applicable fiberboard box specification. When specified, intermediate fiberboard boxes conforming to PPP-B-636 closed as specified herein may be used as the shipping container.

5.3.3 Level C. Rolls, packaged as specified (see 6.2.1), shall be packed in containers in a manner which will insure acceptance by common carrier, at the lowest rate and will afford protection against physical or mechanical damage during direct shipment from the supply source to the first receiving activity for immediate use. This level in general shall conform to the Uniform Freight Classification Rules and Regulations and National Motor Freight Classification Rules and Regulations or other carrier regulations as applicable to the mode of transportation.

5.4 Marking. In addition to any special marking required by the contract or order (see 6.2.1), interior packages and exterior shipping containers shall be marked for shipment in accordance with MIL-STD-129.

6. NOTES

6.1 Intended use. Gasket material covered by this specification is intended for use in flanges of watertight ventilating ducts and ventilation duct heater, nonwatertight, and as a damping material and insulating material between dissimilar metals.

6.2 Ordering data.

6.2.1 Acquisition requirements. Acquisition documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) The required thickness and width of rolls (see 3.3, 5.1, and 6.3).
- (c) Unit quantity of rolls to be packaged in intermediate containers (see 5.2.1.1).
- (d) Level of packaging and level of packing required (see 5.2 and 5.3 through 5.3.3).
- (e) Special marking for shipment required (see 5.4).

6.2.2 Data requirements. When this specification is used in a contract which invokes the provision of the "Requirements for Data" of the Defense Acquisition Regulation (DAR), the data identified below, which are required to be developed by the contractor, as specified on an approved Data Item Description (DD Form 1664), and which are required to be delivered to the Government, should be selected and specified on the approved Contract Data Requirement List (DD Form 1423) and incorporated in the

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contract When the provisions of the "Requirements for Data" of the DAR are not invoked in a contract, the data required to be developed by the contractor and required to be delivered to the Government should be selected from the list below and specified in the contract.

<u>Paragraph</u>	<u>Data requirements</u>	<u>Applicable DID</u>	<u>Option</u>
4.7	Certificate of compliance	DI-E-2121	----

(Copies of data item descriptions required by the contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.)

6.2.2.1 The data requirements of 5.2.2 and any task in section 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).

6.3 Width. The finished gasket material is available in rolls from 1/4-inch to 60 inches in width.

6.4 With respect to products requiring qualification, awards will be made only for products which are at the time set for opening of bids, qualified for inclusion in the applicable Qualified Products List QPL-20241 whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or orders for the products covered by this specification. The activity responsible for the Qualified Products List is Naval Sea Systems Command, SEA 3112, Department of the Navy, Washington, DC 20362, and information pertaining to qualification of products may be obtained from that activity. Application for Qualification tests shall be made in accordance with "Provisions Governing Qualification SD-6" (see 6.4.1).

6.4.1 Copies of "Provisions Governing Qualification SD-6" may be obtained upon application to Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, Pennsylvania 19120.

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6.5 Changes from previous issue. Asterisks (*) are not used in this revision to identify changes with respect to the previous issue, due to the extensiveness of the changes.

Custodians:

Army - MR
Navy - SH

Preparing activity:

Navy - SH
(Project 5330-0538)

Review activities:

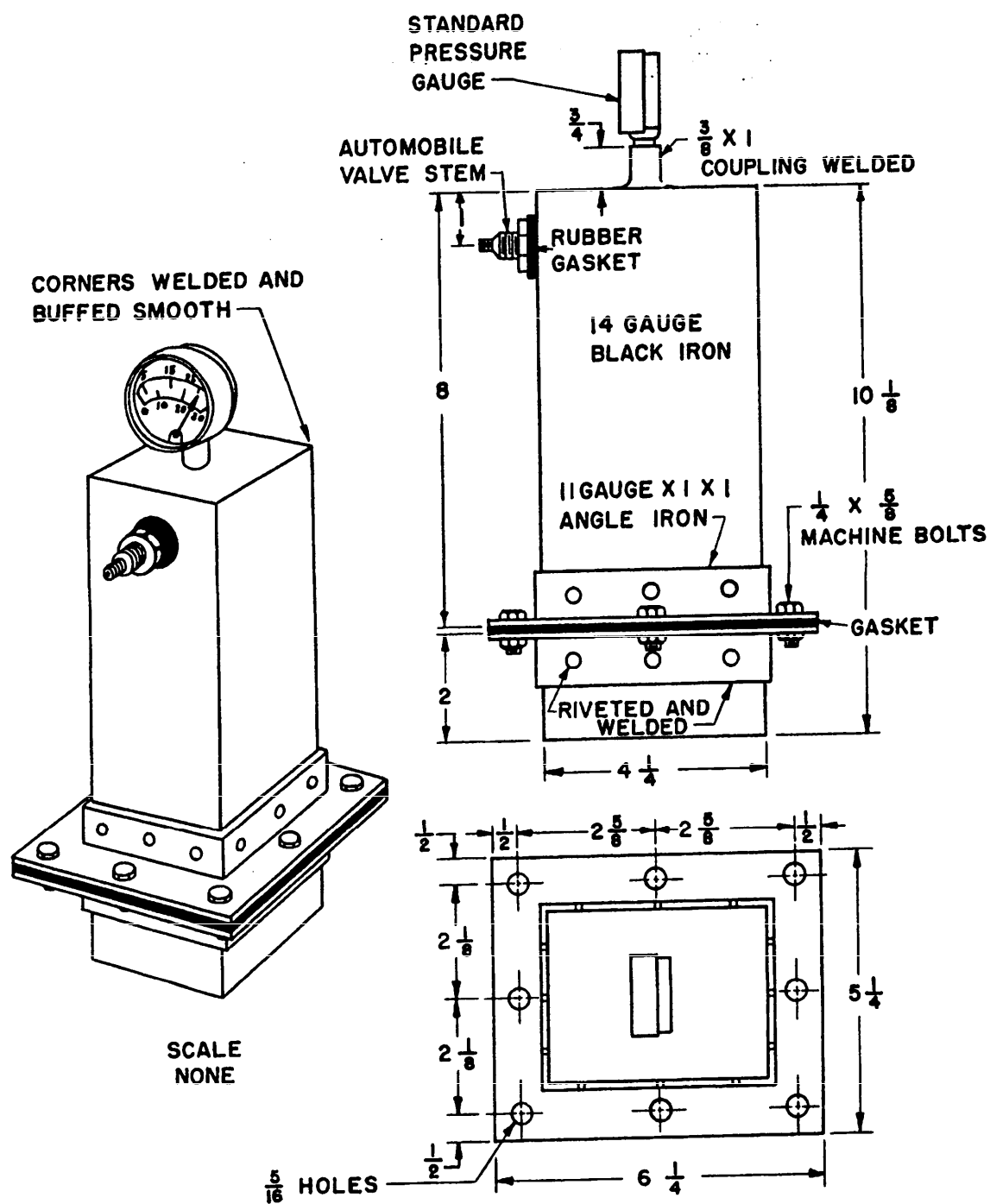
DLA - IS, CT

U.S. GOVERNMENT PRINTING OFFICE: 1980-503-121/1692

User activities:

Army - AT, ME
Navy - YD

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SH2951

FIGURE 1. Performance test apparatus.

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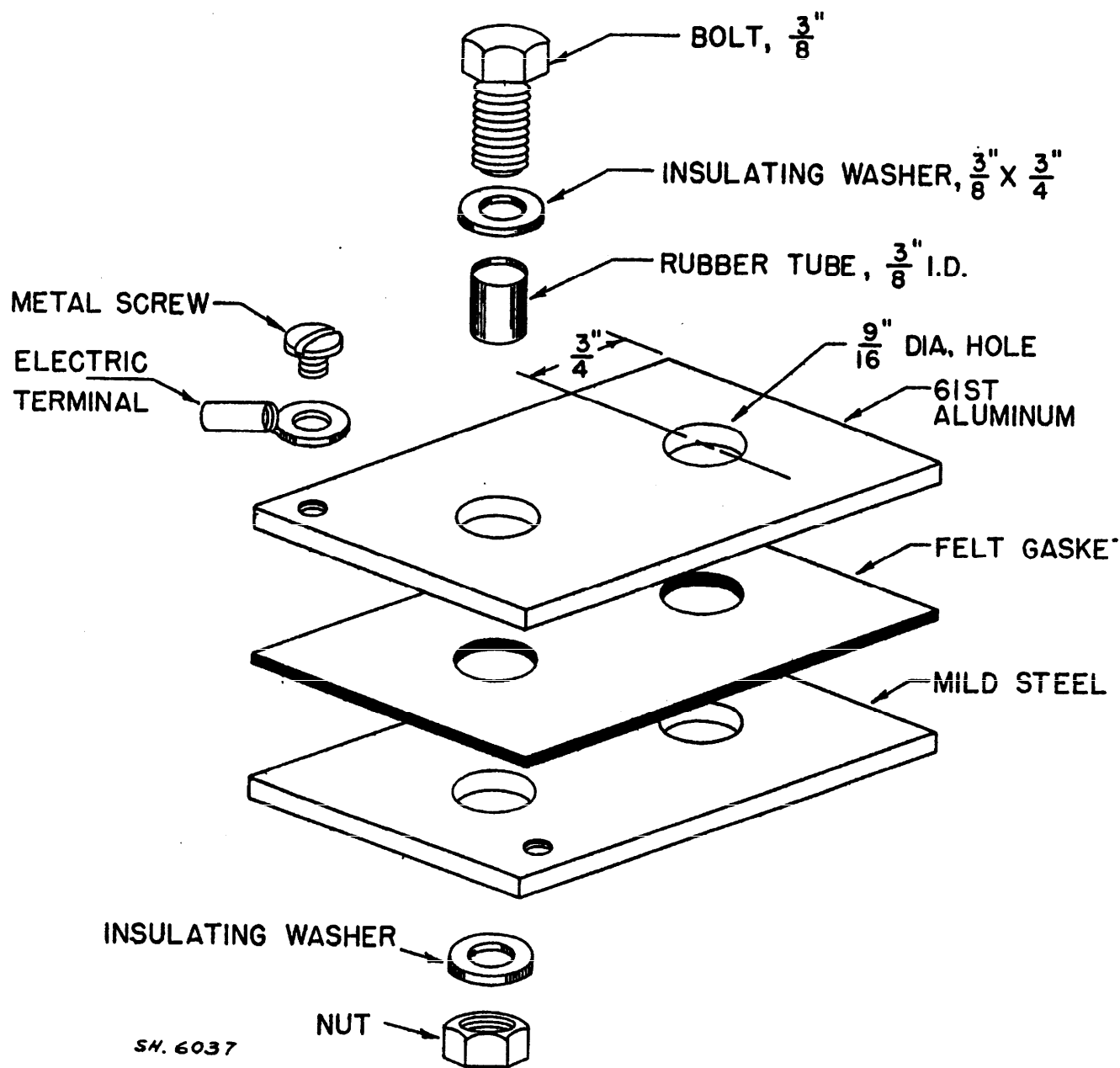
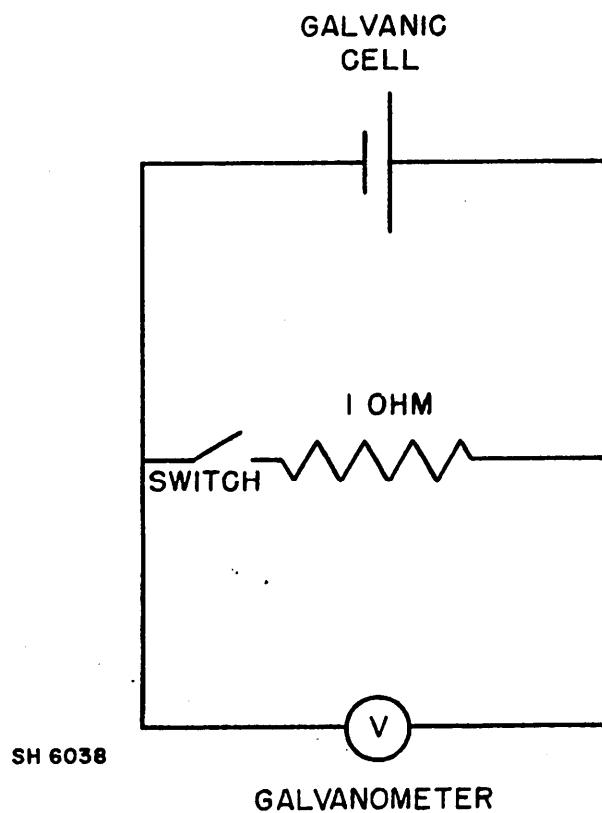


FIGURE 2. Galvanic cell.

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NOTE: SWITCH CLOSED EXCEPT WHILE TAKING OPEN CIRCUIT VOLTAGE READING.

FIGURE 3. Electrical circuit.

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL		OMB Approval No. 22-R255
<p>INSTRUCTIONS: The purpose of this form is to solicit beneficial comments which will help achieve procurement of suitable products at reasonable cost and minimum delay, or will otherwise enhance use of the document. DoD contractors, government activities, or manufacturers/vendors who are prospective suppliers of the product are invited to submit comments to the government. Fold on lines on reverse side, staple in corner, and send to preparing activity. 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. Attach any pertinent data which may be of use in improving this document. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity.</p>		
DOCUMENT IDENTIFIER AND TITLE		
MIL-G-20241D		
NAME OF ORGANIZATION AND ADDRESS		CONTRACT NUMBER
		MATERIAL PROCURED UNDER A
		<input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT
1. HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?		
A. GIVE PARAGRAPH NUMBER AND WORDING.		
B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES		
2. COMMENTS ON ANY DOCUMENT REQUIREMENT CONSIDERED TOO RIGID		
3. IS THE DOCUMENT RESTRICTIVE?		
<input type="checkbox"/> YES <input type="checkbox"/> NO (If "Yes", in what way?)		
4. REMARKS		
SUBMITTED BY (Printed or typed name and address - Optional)		TELEPHONE NO.
		DATE

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