

HH-C-576b

August 1, 1961

SUPERSEDING

Int. Fed. Spec. HH-C-00576a (COM-NBS)

September 8, 1958 and

Fed. Spec. HH-C-576

December 17, 1936

FEDERAL SPECIFICATION**CORK SHEET (GASKETS, SHEETS, AND STRIPS)**

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies

1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers cork composition to be used as cushions and gaskets between glass or porcelain and metal; and as gaskets for oil pans, cover plates, gearcases, fuel systems, water pumps, transformers, and similar applications.

1.2 Classification.

1.2.1 Types. Cork-composition gaskets, sheets, and strips in accordance with this specification shall be furnished in the following types, as specified in the invitation for bids:

Type I.—Protein binder.

A.—Untreated

B.—Mildew resistant.

Type II.—Resin binder.

A.—Untreated

B.—Mildew resistant.

1.2.2 Classes Cork-composition gaskets, sheets, and strips in accordance with this specification shall be furnished in the following classes, as specified in the invitation for bids

Class 1.—Light.

Class 2.—Medium.

Class 3.—Heavy.

1.2.2 Shapes and dimensions (other than thickness).

1.2.2.1 Fabricated gaskets. Fabricated gaskets, die cut, shall be of the shape and dimensions specified in the invitation for bids.

1.2.2.2 Sheet composition Sheet composition shall be of the length and width specified in the invitation for bids (see 6.7).

1.2.2.3 Strip composition. Strip composition shall be of the length and width specified in the invitation for bids.

1.2.3 Thickness Cork-composition sheets, strips, and gaskets covered by this specification shall be of the following thicknesses, as specified in the invitation for bids.

$\frac{1}{82}$ inch.

$\frac{1}{16}$ inch

$\frac{1}{8}$ inch.

$\frac{3}{16}$ inch.

$\frac{1}{4}$ inch.

2. APPLICABLE SPECIFICATIONS AND STANDARDS

2.1 The following specifications and standards, of the issues in effect on date of invitation for bids, form a part of this specification:

Federal Specifications:

CCC-T-191—Textile Test Methods.

PPP-B-585—Boxes, Wood Wirebound.

PPP-B-591—Boxes, Fiberboard, Wood-Cleated.

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PPP-B-601—Boxes, Wood, Cleated-Ply-wood.

PPP-B-621—Boxes, Wood, Nailed and Lock-Corner.

PPP-B-636—Box, Fiberboard.

Federal Standards:

Fed. Std. No. 102—Preservation, Packaging, and Packing Levels.

Fed. Std. No. 123—Marking for Shipment (Civilian agencies).

Federal Test Method Standard No. 601—Rubber Sampling and Testing.

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications, Standards, and Handbooks and at the prices indicated in the Index The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U S Government Printing Office, Washington, D C

(Single copies of this specification and other product specifications required by activities outside the Federal Government for bidding purposes are available without charge at the General Services Administration Regional Offices in Boston, New York, Atlanta, Chicago, Kansas City, Mo., Dallas, Denver, San Francisco, Los Angeles, Seattle, and Washington, D. C

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications, Standards, and Handbooks from established distribution points in their agencies.)

Military Specifications:

MIL-B-116—Preservation, methods of.

MIL-B-138—Boxes, wood, fiberboard-lined for overseas shipment for weight of contents not exceeding 500 pounds.

MIL-B-10377—Box, wood, cleated, paper overlaid.

MIL-B-10547—Liners, case, waterproof.

MIL-T-12664—Treatment, mildew resistant, for cork products.

Military Standards:

MIL-STD-105—Sampling procedures and tables for inspection by attributes.

MIL-STD-129—Marking for shipment and storage.

(Copies of Military Specifications and Standards required by the contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

3. REQUIREMENTS

3.1 Material. Cork-composition gaskets, sheets, and strips shall be made of cork of a clean, soft grade, uniformly granulated and practically free from hardback and dust, compressed and bonded with a suitable protein or resin binder.

3.2 Dimensions, tolerance.

3.2.1 Gaskets and strips. The tolerances permitted for gaskets and strips on dimensions other than thickness shall be as specified in the invitation for bids. The tolerance permitted on thickness shall be as required in 3.2.2 for sheets.

3.2.2 Sheets

3.2.2.1 Length and width. A tolerance of $\pm\frac{1}{4}$ inch or one percent, whichever is greater, shall be permitted in the length and width of sheet composition.

3.2.2.2 Thickness. A tolerance in thickness at any point of ± 10 percent or ± 0.010 inch, whichever is greater, shall be permitted.

3.3 Flexibility. Cork-composition $\frac{1}{4}$ inch or less in thickness shall not crack, break, or separate when tested as described in 4.3.2

3.4 Disintegration.

3.4.1 Type I.—Type I cork composition shall not break into pieces or particles, or crumble when floated on boiling water, 4.3.3.1; on petroleum-base oil, 4.3.3.3; and on fuel, 4.3.3.4.

3.4.2 Type II. Type II cork composition shall not break into pieces or crumble when floated on boiling water, 4.3.3.1; on a solution of boiling hydrochloric acid, 4.3.3.2; on petroleum-base oil, 4.3.3.3; and on fuel, 4.3.3.4.

3.5 Mildew resistance, types IB and IIB.

3.5.1 Types IB and IIB cork-composition sheets, strips, and gaskets shall show no growth of mildew when tested as described in 4.3.7.

3.5.2 Army Types IB and IIB cork-composition sheets, strips, and gaskets shall be rendered fungus resistant in accordance with Military Specification MIL-T-12664 (CE), class 1

3.6 Physical requirements. The cork-composition sheets, strips, and gaskets shall meet the requirements in table I.

3.7 Workmanship. Workmanship shall be first class. The cork-composition sheets, strips, and gaskets shall be free from defects which may impair their serviceability.

4. SAMPLING, INSPECTION, AND TEST PROCEDURES

4.1 Sampling.

4.1.1 Lot Unless otherwise specified in the invitation for bids, the lot shall be formed as described in section 6 of Federal Test Method Standard No 601

4.1.2 Sampling for inspection Unless otherwise specified in the invitation for bids, the sample for inspection shall be taken as described in section 6 of Federal Test Method Standard No 601

4.1.3 Sampling for test

4.1.3.1 Gasket, sheet, and strip Unless otherwise specified in the invitation for bids or hereinafter, samples of gasket, sheet, or strip shall be taken for test as described in section 6 of Federal Test Method Standard No 601. Sampling plan B of table II of section 6 of Federal Test Method Standard No 601 shall be used

- (a) Sufficient sheet material shall be taken to make the tests described in 4.3.2 to 4.3.7, inclusive.
- (b) No samples of gasket or strip shall be taken if the width is less than $\frac{1}{2}$ inch
- (c) If the gasket or strip is $\frac{1}{2}$ to 2 inches in width and if the gasket will permit the preparation of a specimen 6 inches long, the test unit shall consist of sufficient gasket or strip to make the tests described in 4.3.2, 4.3.3, 4.3.4, 4.3.5, and 4.3.7 inclusive
- (d) If the gasket or strip is 2 or more inches in width and the shape of the gasket will permit the preparation of a specimen 6 inches in length, the test unit shall consist of sufficient gasket or strip to make the tests described in 4.3.2 to 4.3.7, inclusive

4.1.3.2 Material Unless otherwise specified in the invitation for bids, the contractor shall furnish with each delivery of each type and class of gasket and strip the following samples of material, with an affidavit that the samples are of the same lot and composition as the cork-composition gasket and strip delivered.

- (a) If the gasket or strip delivered is less than $\frac{1}{2}$ inch in width, one piece of material not less than 150 square inches in area, with no linear dimension less than 6 inches, shall be taken for the tests in 4.3.2 to 4.3.7, inclusive
- (b) If the gasket or strip is $\frac{1}{2}$ to 2 inches in width and the shape of the gasket will permit the preparation of specimens 6 inches in length for flexibility,

TABLE I—Physical requirements for types I and II cork composition

Types I and II	Weight per cubic foot, minimum	Tensile strength per square inch, minimum	Compression at 100 pounds per square inch	Recovery, minimum
Class	Pounds	Pounds	Percent	Percent
1	14	70	over 40 to 55	80
2	17	100	over 25 to 40	70
3	24	175	10 to 25	60

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4.3.2, three pieces not less than 3 by 3 inches shall be taken for the test in 4.3.6. If the shape of the gasket does not permit the preparation of a specimen 6 inches in length for the flexibility test, 4.3.2, or 4 inches in length for the tensile strength test, 4.3.5, three pieces not less than 6 by 6 inches shall be taken for the tests in 4.3.2, 4.3.5, and 4.3.6

4.2 Inspection. Each unit in the sample for inspection shall be inspected for material, workmanship, and for dimensions, of section 6 of Federal Test Method Standard No 601

4.2.1 Dimensions

4.2.1.1 Thickness The minimum and maximum thickness of gasket, strip, and sheet shall be determined as described in method 2011 of Federal Test Method Standard No 601, except that the force exerted on the specimen shall be 4.00 ± 0.25 ounces

4.2.1.2 Width. The minimum and maximum width of gasket and strip shall be determined as described in method 2121 of Federal Test Method Standard No 601. The average width and length of sheet shall be determined as described in method 2111 or 2121 of Federal Test Method Standard No 601, as applicable

4.2.2 Inspection of preparation for delivery. *Military agencies* The preservation, packaging, and packing of cork composition and marking of shipping containers shall be examined and tested to determine compliance with the requirements of section 5 of this specification, and as required by specification referenced therein. Except as required by referenced specifications, inspection lots and sampling shall be in accordance with Military Standard MIL-STD-105, and Appendix thereto, with inspection level L-7 and an AQL of 4.0 percent defective.

4.3 Tests. Tests shall be made of gasket, sheet, or strip, 4.1.3.1, or of material, 4.1.3.2, as follows:

(a) Sheet, 4.1.3.1, shall be subjected to the tests described in 4.3.2 to 4.3.7, inclusive.

(b) If the gasket or strip delivered is less than $\frac{1}{2}$ inch in width, material 4.1.3.2(a) shall be subjected to the tests described in 4.3.2 to 4.3.7, inclusive

(c) If the gasket or strip is $\frac{1}{2}$ to 2 inches in width and the shape of the gasket, 4.1.3.1, will permit the preparation of specimens for flexibility test, 4.3.2, material 4.1.3.2(b) shall be subjected to the tests described in 4.3.6 only. If the shape of the gasket does not permit the preparation of a specimen of sufficient length for the flexibility test, 4.3.2, or the tensile strength test, 4.3.5, the test in 4.3.2 or 4.3.5 shall also be made of the material in 4.1.3.2(b)

(d) Gasket and strip, 4.1.3.1, $\frac{1}{2}$ to 2 inches in width, shall be subjected to the tests described in 4.3.2, 4.3.3, 4.3.4, 4.3.5, and 4.3.7 when the shape of the gasket permits the preparation of a specimen of sufficient length for the flexibility test, 4.3.2, and the tensile strength test, 4.3.5

(e) Gasket or strip, 4.1.3.1, 2 inches and over in width shall be subjected to the tests described in 4.3.2 to 4.3.7, inclusive

4.3.1 Conditioning All specimens for the tests in 4.3.2, 4.3.4, 4.3.5, and 4.3.6 may be conditioned under prevailing atmospheric conditions except in case of dispute. In case of dispute, tests shall be made on tile which has been conditioned not less than 46 hours in an atmosphere of 50 ± 4 percent relative humidity and at a temperature of $23^\circ \pm 1.1^\circ \text{C}$ ($73.4^\circ \pm 2^\circ \text{F}$.)

4.3.2 Flexibility

4.3.2.1 Specimen The specimen shall consist of a portion of the test unit 6 inches long and 0.50 inch in width and the thickness of the material undergoing the test.

4.3.2.2 Apparatus. The apparatus shall consist of a mandrel having a diameter 5 times the

nominal thickness of the gasket, sheet, or strip undergoing test

4.3.2.3 Procedure The specimen shall be bent at approximately its center over the mandrel through an arc of approximately 180 degrees and at a uniform speed in approximately 5 seconds. While bent over the mandrel, the specimen shall be examined for cracks, breaks, and separation.

4.3.2.4 Results

4.3.2.4.1 One specimen from each test unit shall be tested.

4.3.2.4.2 If the specimen cracks, breaks, or shows separation, the test unit from which the specimen was taken shall be considered to have failed to meet the requirements of the specification.

4.3.3 Disintegration

4.3.3.1 Boiling water One specimen not less than one square inch in area from each test unit shall be floated on the surface of boiling water for 30 ± 0.1 hour. At the end of the flotation period, the specimen shall be examined for evidence of disintegration. If the specimen shows evidence of disintegration, the test unit from which the specimen was taken shall be considered defective.

4.3.3.2 Boiling hydrochloric acid, type II One specimen not less than one square inch in area from each test unit shall be floated on the surface of a boiling 35 percent solution of hydrochloric acid for 30 ± 2 minutes. At the end of the flotation period, the specimen shall be examined for evidence of disintegration. If the specimen shows evidence of disintegration, the test unit from which the specimen was taken shall be considered defective.

4.3.3.3 Petroleum-base oil One specimen not less than one square inch in area from each test unit shall be floated on the surface of a petroleum-base oil at a temperature of $100^\circ \pm 2^\circ \text{C}$. ($212^\circ \pm 3.6^\circ \text{F}$.) for a period of 2.0 ± 0.1 hour. The petroleum-base oil shall be medium

No 1 in method 6001 of Federal Test Method Standard No 601. At the end of the flotation period, the specimen shall be examined for evidence of disintegration. If the specimen shows evidence of disintegration, the test unit from which the specimen was taken shall be considered defective.

4.3.3.4 Fuel One specimen not less than one square inch in area from each test unit shall be floated on the surface of a fuel at a temperature of $23.0^\circ \pm 2^\circ \text{C}$ ($73.4^\circ \pm 3.6^\circ \text{F}$) for a period of 10 days. The fuel shall be medium No 4 in method 6001 of Federal Test Method Standard No 601. At the end of the flotation period, the specimen shall be examined for evidence of disintegration. If the specimen shows evidence of disintegration, the test unit from which the specimen was taken shall be considered defective.

4.3.4 Weight per cubic foot

4.3.4.1 Specimen The specimen shall consist of a portion of the test unit at least 2 square inches in area.

4.3.4.2 Apparatus Analytical balance for weighing the specimen to an accuracy of one percent.

4.3.4.3 Procedure

4.3.4.3.1 The average thickness of the specimen shall be determined as described in method 2011 of Federal Test Method Standard No 601, except that the total force exerted on the specimen shall be 4.00 ± 0.25 ounces.

4.3.4.3.2 The average width and length of the specimen shall be determined as described in method 2121 of Federal Test Method Standard No 601 and the value recorded to the nearest 0.01 inch.

4.3.4.3.3 The specimen shall be weighed on the balance to an accuracy of one percent. The weight in pounds per cubic foot shall be calculated by dividing the weight of the specimen in pounds by the volume of the specimen in cubic feet.

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4.3.4.4 Results Two specimens from each test unit shall be tested. The weight per cubic feet of the test unit shall be the average of the values obtained from the specimens tested and shall be recorded to the nearest one pound per cubic foot.

4.3.5 Tensile strength.

4.3.5.1 Specimen. For sheet, the specimen shall consist of a portion of the test unit at least 4 inches long and 2.00 inches in width. In case of gaskets and strips, the width of the specimen shall be as near 2 inches as the pattern and width of the gasket and the width of the strip will permit. In no case shall the width of the specimen be less than 0.50 inch. The thickness of the specimen shall be the thickness of the material undergoing test.

4.3.5.2 Apparatus

4.3.5.2.1 Testing machine described in method 5100 of Federal Specification CCC-T-191 except that the face of all jaws of the machine shall measure not less than 2 inches.

4.3.5.2.2 Die or other means of cutting the specimen with clean-cut edges.

4.3.5.3 Procedure

4.3.5.3.1 The specimen shall be cut with the die or other apparatus, care being taken that the edges will be clean cut.

4.3.5.3.2 The minimum thickness of the part of the specimen to be included between the jaws of the testing machine shall be determined as described in method 2011 of Federal Test Method Standard No. 601, except that the total force exerted on the specimen shall be 4.00 ± 0.25 ounces.

4.3.5.3.3 The minimum width of the specimen between the jaws of the machine shall be determined as described in method 2121 of Federal Test Method Standard No. 601 and the value recorded to the nearest 0.01 inch.

4.3.5.3.4 The cross-sectional area of the specimen C shall be calculated by multiplying the minimum thickness by the minimum width.

4.3.5.3.5 The specimen shall be placed in the testing machine with a length of at least one inch in each clamp. The distance between the clamps of the machine at the start of the test shall be $2 \pm \frac{1}{8}$ inch for specimens 2 inches in width. In the case of specimens from gasket and strip where the specimen may be less than 2 inches in width, the distance between the clamps at the start of the test shall be the same as the width of the specimen, with a tolerance of $\pm \frac{1}{8}$ inch. The specimen shall be adjusted symmetrically in the machine so that the tension will be distributed uniformly over the cross section. The machine shall be started and the power-actuated grip shall travel at a uniform speed of 120 ± 0.5 inch per minute until the specimen ruptures. After rupture of the specimen, the breaking force in pounds shall be read from the dial or scale and the value recorded as F.

4.3.5.4 Results The tensile strength of the specimen in pounds per square inch = $\frac{F}{C}$

Three specimens from each test unit shall be tested except that if the tensile strength of one or more specimens does not meet the requirements in table I, five specimens shall be tested.

4.3.5.4.1 The tensile strength of the test unit shall be the median of the values obtained from the specimen tested and shall be recorded to the nearest 5 pounds per square inch.

4.3.6 Compressibility and recovery The compressibility and recovery of cork composition shall be determined as described in method 3331 of Federal Test Method Standard No. 601.

4.3.7 Resistance to mildew The resistance to mildew shall be determined as described in method 5750, qualitative procedure of Federal Specification CCC-T-191 except that the specimens from gasket and strip shall be 2 inches long and the approximate width of the material undergoing test. If one or more of the specimens

tested shows a growth of mildew, the test unit from which the specimens were taken shall be considered defective

4.4 Compliance criteria.

4.4.1 Inspection Compliance of the lot with respect to inspection shall be based on the principles described in Federal Test Method Standard No 601

4.4.2 Tests

4.4.2.1 Gasket, sheet, and strip If tests are made of gaskets, sheets, or strips, compliance criteria shall be based on the principles described in Federal Test Method Standard No 601

4.4.2.2 Materials The failure of the piece of cork composition material, 4 1 3.2, to meet any of the requirements for which tests were made, 4 3, shall be cause for rejection of all of the gaskets or strips of that type or class delivered that were represented by the sample

5. PREPARATION FOR DELIVERY

(For civil agencies, the definitions and applications of the levels of packaging and packing shall be in accordance with Federal Standard No 102)

5.1 Civil agencies.

5.1.1 Packaging Unless otherwise specified in the invitation for bids, commercial packages are acceptable under this specification. Packaging shall be accomplished in such a manner as to insure that the material or parts, during shipment and storage, will not be permanently distorted and will be protected against exposure to undue weathering or harmful agents of any kind

5.1.2 Packing Unless otherwise specified in the invitation for bids, the subject commodity shall be in substantial commercial containers of the type, class, size, and kind commonly used for this purpose, so constructed as to insure acceptance and safe delivery by common or other carriers, at the lowest rate, to the point of delivery called for in the contract or purchase order

5.1.3 Marking In addition to any special marking required by the contract or order, shipments shall be marked in accordance with Federal Standard No 123.

5.2 Military agencies.

5.2.1 Packaging Packaging shall be level A or C as specified in the contract or order (see 6.2).

5.2.1.1 Level A

Fabricated gaskets Gaskets of like description, in commercial quantities, or in quantities as specified (see 6 1), shall be packaged in overseas type boxes in accordance with method III of Military Specification MIL-P-116

Sheets and strips. Sheets and strips of cork composition of like size and description shall be individually rolled or rolled together to the minimum safe diameter, and the rolls secured and packaged in an overseas type box in accordance with method III of Military Specification MIL-P-116

5.2.1.2 Level C. Packaging of cork composition shall be in accordance with the supplier's standard practice provided that it be accomplished in such a manner that will prevent permanent distortion during shipment from supply sources to the first receiving activity for immediate use

5.2.2 Packing Packing shall be level A, B, or C as specified in the contract or order (see 6.1)

5.2.2.1 Level A Cork-composition gaskets, sheets, and strips shall be packed in a close-fitting overseas type container conforming to Federal Specification PPP-B-591, PPP-B-601, PPP-B-621, PPP-B-636, Military Specification MIL-B-138, or MIL-B-10377, as applicable. Containers shall be provided with case liners conforming to Military Specification MIL-L-10547 with the exception of containers conforming to Federal Specification PPP-B-636. The gross weight, closure, and strapping of the shipping container shall be in accordance with the

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applicable container specification and the appendix thereto

5.2.2.2 Level B Cork-composition gaskets, sheets, and strips shall be packed in a close-fitting domestic type container conforming to Federal Specification PPP-B-585, PPP-B-591, PPP-B-601, PPP-B-621, PPP-B-636, or Military Specification MIL-B-10377, as applicable. The gross weight, closure, and strapping of the shipping container shall be in accordance with the applicable container specification and the appendix thereto.

5.2.2.3 Level C The cork-composition gaskets, sheets, and strips shall be packed to afford adequate protection against damage during shipment from supply source to the first receiving activity for immediate use. Containers shall comply with the consolidated Freight Classification Rules or other common carrier regulations applicable to the mode of transportation.

5.2.3 Marking Interior and exterior shipping containers shall be marked in accordance with Military Standard MIL-STD-129.

6. NOTES

6.1 Ordering data. Purchasers should specify the following:

- (a) Title, number, and date of this specification
- (b) Type, class, shape, dimensions, and thickness required (See 1.2.1, 1.2.2, and 1.2.3.)
- (c) Quantity required
- (d) Sampling, if other than indicated (See 4.1.)
- (e) Military agencies
 - (1) Level of packaging and packing required (See 5.2.)
 - (2) Container required (See 5.2.2.1 and 5.2.2.2.)
- (f) Civilian agencies Level of packaging and packing required if other than level C. (See 5.1.)

6.2 Intended use. The composition-cork sheets and gaskets are intended for use as follows:

6.2.1 Class 1 A comparatively soft material recommended for use as a cushion and gasket between glass or porcelain and metal or in any installation where irregularities are such as to require a high degree of compressibility.

6.2.2 Class 2 Recommended as a standard, general purpose cork gasket material for oil pans, cover plates, gearcases, etc.

6.2.3 Class 3 Recommended for important installations or where other classes have proven inadequate. Suggested particularly for transformers or other oil-filled electrical equipment. May also be used as a packing or bearing seal for rotating members.

6.3 Cork-composition material is not recommended for applications involving continuous service at temperatures over 250° F or intermittent service at temperatures over 300° F.

6.4 The initial friction of cork-composition material (gaskets) will be reduced if coated with oil or graphite.

6.5 The mechanical strength of cork-composition material (gaskets) will be increased if laminated with cloth, treated paper, or sheet fiber.

6.6 Storage. Types IA and IIA cork-composition material which is not mildew resistant should be stored in a cool dry place to retard the growth of mildew. Sheets should be separated with a stiff material in order to minimize the possibility of breaking.

6.7 The following size sheets are commercially available from more than one manufacturer.

- 28 by 50 inches
- 29 by 49 inches
- 37 by 49 inches
- 24 by 36 inches

The following size sheets are commercially available from one company only.

- 12 by 36 inches
- 24 by 24 inches
- 24 by 30 inches
- 28 by 42 inches
- 36 by 42 inches

6.8 The terms "lot", "unit", and "test unit" are defined in Federal Test Method Standard No 601

6.9 Military agencies.

6.9.1 Supplier's responsibility The supplier is responsible for the performance of all inspection, examination and test requirements specified herein. Except as otherwise specified, the supplier may utilize his own or any other inspection facilities and services acceptable to the Government. Inspection records of the examination and tests shall be kept complete and available to the Government as specified in the contract or order. 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.

6.9.2 Preparation of delivery criteria Criteria for use of the proper level of packaging and packing shall be as follows:

Level A This level shall be used for those items which are to be shipped to indeterminate destinations or stored under indeterminate conditions for redistribution anywhere.

Level B This level shall be used for protection against damage during multiple domestic shipments, handling, and covered storage.

Level C This level shall be used only when it is definitely known that the packaged item is to be shipped to domestic installations for immediate use at the first receiving activity.

6.10 Transportation description. Transportation description and minimum weight applicable to this commodity are:

Rail

Gaskets, not otherwise indexed by name, or other materials, except leather, metal, or rubber.

Carload minimum weight 30,000 pounds

Motor

Gaskets or packing devices, not otherwise indexed.

Truckload minimum weight, 30,000 pounds, subject to Rule 34, National Motor Freight Classification.

Notice. When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications or other data, is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

MILITARY INTEREST:

Navy—W S

SPECIFICATION ANALYSIS SHEET

Form Approved
Budget Bureau No. 119-R004INSTRUCTIONS

This sheet is to be filled out by personnel either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity (as indicated on reverse hereof).

SPECIFICATION

ORGANIZATION (of submitter)

CITY AND STATE

CONTRACT NO.

QUANTITY OF ITEMS PROCURED

DOLLAR AMOUNT

\$

MATERIAL PROCURED UNDER A

DIRECT GOVERNMENT CONTRACT

SUBCONTRACT

1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?
A. GIVE PARAGRAPH NUMBER AND WORDING.

B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES.

2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID

3. IS THE SPECIFICATION RESTRICTIVE?

 YES NO

IF "YES", IN WHAT WAY?

4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)

SUBMITTED BY (Printed or typed name and activity)

DATE

FOLD

DEPARTMENT OF THE NAVY

POSTAGE AND FEES PAID
NAVY DEPARTMENT

OFFICIAL BUSINESS

CHIEF, BUREAU OF NAVAL WEAPONS
ENGINEERING DIVISION
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WASHINGTON, D.C. 20360

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