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SS-C-00466d (NAVY-Ships)
June 19, 1962
Interim Revision of
SS-C-466c
April 11, 1962

INTERIM FEDERAL SPECIFICATION

CLOTH, THREAD, AND TAPE - ASBESTOS

This interim Federal specification was developed by the Bureau of Ships, Department of the Navy, Washington 25, D.C., based upon currently available technical information pending the inclusion of its contents in a coordinated document. It is recommended that Federal agencies use it in procurement and forward recommendations for changes to the preparing activity at the address shown above.

The General Services Administration has authorized the use of this interim Federal specification as a valid exception to Federal Specification SS-C-466c.

1. SCOPE

1.1 Scope.- This specification covers asbestos cloth, thread, and tape for use as a lagging material or jacket over thermal insulation and as a wrapping on engine exhaust pipes.

1.1.1 Federal specification coverage.- This specification does not cover all types, classes and sizes of asbestos cloth, thread, and tape, but only those most generally used by the Federal Government.

1.2 Classification.-

1.2.1 Forms, grades and styles.- Asbestos cloth, thread, and tape shall be of the following forms, grades and styles, as specified (see 6.2):

Form I - Cloth.
- Grade U.G. - 80 percent asbestos, blue stripe.
  - Style 1 - Plain weave, regular weight.
  - Style 2 - Plain weave, light weight.
  - Style 3 - Plain weave, special weight, No. 1 construction.
  - Style 4 - Plain weave, special weight, No. 2 construction.
  - Style 5 - Plain weave, combination asbestos and glass, No. 3 construction.
  - Style 6 - Plain weave, combination asbestos and glass, No. 4 construction.
- Grade AA - 90 percent asbestos, red stripe.
  - Style 1 - Plain weave, regular weight.
- Grade AAA - 95 percent asbestos, green stripe.
  - Style 1 - Plain weave, regular weight.
  - Style 2 - Plain weave, light weight.
- Grade AAA-M - 95 percent asbestos, wire insertion, no stripe.
  - Style 1 - Plain weave.

Form II - Thread, sewing, reinforced with wire.
Form III - Thread, sewing, without wire.
Form IV - Tape.
- Grade U.G. - 80 percent asbestos.
  - Style 1 - Plain weave.

1.2.2 Sizes.- The asbestos cloth, thread, and tape shall be furnished in the sizes specified (see 6.2 and 6.3).

2. APPLICABLE SPECIFICATIONS, STANDARDS AND OTHER PUBLICATIONS

2.1 The following specifications and standards, of the issue in effect on date of invitation for bids, form a part of this specification to the extent specified herein:

SPECIFICATIONS

FEDERAL

CCC-T-191 - Textile Test Methods.

FSC 5640

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(Activities outside the Federal Government may obtain copies of Federal Specifications and 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 25, 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.)

STANDARDS

MILITARY
MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.

(Copies of specifications, standards, drawings, and publications 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 shall apply.

OFFICIAL CLASSIFICATION COMMITTEE
Uniform Freight Classification Rules.

(Application for copies should be addressed to the Official Classification Committee, 1 Park Avenue at 33rd St., New York 16, N.Y.)

AMERICAN SOCIETY FOR TESTING MATERIALS
Standard D1918-62T - Asbestos Content of Asbestos Textiles, Method of Test for.

(Application for copies should be addressed to the American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa.)

3. REQUIREMENTS

3.1 Material.- Asbestos cloth, thread, and tape shall be made of good-quality chrysotile asbestos and organic fiber.

3.2 Hygroscopic moisture.- Hygroscopic moisture shall not exceed 5 percent (see 4.4.1.1 and 4.4.3.1).

3.3 Form I, cloth.-

3.3.1 Fabrication.- Cloth shall be woven with single or plied yarns, and may be finished to provide qualities and characteristics such as lint free, brushed and filled, calendered, napped, dry-woven, or wet-woven providing tensile and construction qualities are maintained as specified.

3.3.2 Width tolerance.- A tolerance in width of plus or minus 1/2 inch for cloth up to 40 inches in width, plus or minus 3/4 inch for cloth from 40 to 60 inches in width, and plus or minus 1 inch for widths over 60 inches will be permitted.

3.3.3 Grade U.G., 80 percent asbestos, blue stripe.- The cloth shall contain not less than 80 percent asbestos and a stripe of blue cotton shall be woven in each selvage edge.

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3.3.3.1 Style 1, plain weave, regular weight.- Style 1 cloth shall conform to the construction shown in table I.

Table I - Grade U.G., style 1 cloth.

Weight per square yard ±7 percent	Construction		Breaking strength, minimum average, as received	
	Ends per inch ±1	Picks per inch ±1	Warp	Fill
Pounds			Pounds	Pounds
2.25	18	9	90	40

3.3.3.2 Style 2, plain weave, light weight.- Style 2 cloth shall conform to the construction shown in table II.

Table II - Grade U.G., style 2 cloth.

Weight per square yard ±7 percent	Construction		Breaking strength, minimum average, as received	
	Ends per inch ±1	Picks per inch ±1	Warp	Fill
Pounds			Pounds	Pounds
1.40	19	10	80	40

3.3.3.3 Style 3, plain weave, special weight, No. 1 construction.- Style 3, No. 1 construction cloth shall conform to the construction shown in table III.

Table III - Grade U.G., style 3 cloth, No. 1

Weight per square yard ±7 percent	Construction		Breaking strength, minimum average, as received	
	Ends per inch ±1	Picks per inch ±1	Warp	Fill
Pounds			Pounds	Pounds
0.75	21	17	40	30

3.3.3.4 Style 4, plain weave, special weight, No. 2 construction.- Style 4, No. 2 construction cloth shall conform to the construction shown in table IV.

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Table IV - Grade U.G., style 4 cloth, No. 2

Weight per square yard ±7 percent	Construction		Breaking strength, minimum average, as received	
	Ends per inch ±1	Picks per inch ±1	Warp	Fill
Pounds			Pounds	Pounds
1.05	20	15	65	40

3.3.3.5 Style 5, combination asbestos glass, plain weave, No. 3 construction.- Style 5, No. 3 construction cloth shall conform to the construction shown in table V.

Table V - Grade U.G., style 5 cloth, No. 3

Weight per square yard ±7 percent	Construction		Breaking strength, minimum average, as received	
	Ends per inch ±1	Picks per inch ±1	Warp	Fill
Pounds		-	Pounds	Pounds
1.10	13	9	90	70

3.3.3.6 Style 6, combination asbestos glass, plain weave, No. 4 construction.- Style 6, No. 4 construction cloth shall conform to the construction shown in table VI.

Table VI - Grade U.G., style 6 cloth, No. 4

Weight per square yard ±7 percent	Construction		Breaking strength, minimum average, as received	
	Ends per inch ±1	Picks per inch ±1	Warp	Fill
Pounds			Pounds	Pounds
1.40	18	9	125	70

3.3.4 Grade AA, 90 percent asbestos, red stripe.-

3.3.4.1 Style 1, plain weave.- The cloth shall contain not less than 90 percent asbestos and shall conform to the construction shown in table VII. A stripe of red cotton yarn shall be woven in each selvage edge.

3.3.5 Grade AAA, 95 percent asbestos, green stripe.- The cloth shall contain not less than 95 percent asbestos and a stripe of green cotton yarn shall be woven in each selvage edge.

3.3.5.1 Style 1, plain weave, regular weight.- Style 1 cloth shall conform to the construction shown in table VIII.

3.3.5.2 Style 2, plain weave, light weight.- Style 2 cloth shall conform to the construction shown in table VIII.

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Table VII - Grade AA, style 1 cloth.

Weight per square yard ±7 percent	Construction		Breaking strength, minimum average, as received	
	Ends per inch ±1	Picks per inch ±1	Warp	Fill
Pounds			Pounds	Pounds
2.25	18	9	100	40

Table VIII - Grade AAA, styles 1 and 2 cloth

	Weight per square yard ±7 percent	Construction		Breaking strength, minimum average, as received	
		Ends per inch ±1	Picks per inch ±1	Warp	Fill
	Pounds			Pounds	Pounds
Style 1	2.25	18	9	125	50
Style 2	1.4	19	10	80	40

3.3.6 Grade AAA-M, 95 percent asbestos, wire insertion, no stripe.-

3.3.6.1 Style 1, plain weave.- The cloth shall contain not less than 95 percent asbestos exclusive of the wire insertion, and shall conform to the constructions shown in table IX.

Table IX - Grade AAA-M, style 1 cloth

Weight per square yard ±7 percent	Construction		Wire		
	Ends per inch ±1	Picks per inch ±1	Composition	Diameter ±.001 inch	Number of strands
Pounds				Inch	
2.60	18	9	Soft annealed nickel	.006	1
2.75	18	9	Nickel-copper alloy 58 percent nickel, min.	.008	1
3.50	18	9	Nickel-copper alloy 58 percent nickel, min.	.008	2

3.4 Form II, thread, sewing, reinforced with wire.- The strands shall be composed of three nickel-copper wires, each of which shall have asbestos yarn spun around it, twisted together to definitely interlock the asbestos and wire. The yard shall be 10-cut and shall contain not less than 95 percent asbestos. The wire insertion shall contain not less than 58 percent nickel and shall be 0.008 ± 0.001 inch in diameter.

3.5 Form III, thread, sewing, without wire.- The thread shall be made from yarn not heavier than 10-cut, 2-ply, and shall contain not less than 75 percent asbestos. One pound of the thread shall provide not less than 450 yards. The breaking strength of the thread shall be not less than 4 pounds, when tested as specified in 4.4.2.

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3.6 Form IV, tape.-

3.6.1 Grade U.G., 80 percent asbestos.-

3.6.1.1 Style 1, plain weave.- The tape shall contain not less than 80 percent asbestos. The construction shall be 16 ± 1 ends by 8 ± 1 picks per inch. The warp yarn shall be 10-cut, 3-ply, and the filling shall be 10-cut, 2-ply. The tape shall be of plain weave with woven selvage edges.

3.6.1.1.1 Tolerance in width.- A tolerance of plus or minus 1/8 inch will be permitted in the specified width of tape.

3.7 Workmanship.- The asbestos cloth, thread, and tape shall be reasonably free from nap, broken and uneven threads, and knots.

4. SAMPLING, INSPECTION, AND TEST PROCEDURES

4.1 Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. 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 Sampling.-

4.2.1 Lot.-

4.2.1.1 Form I, cloth.- For purposes of sampling, a lot shall consist of not more than 5000 square yards of cloth of the same grade and style produced in one plant under essentially the same conditions.

4.2.1.2 Forms II and III, thread.- For purposes of sampling, a lot shall consist of not more than 100 pounds of thread of the same form produced in one plant under essentially the same conditions.

4.2.1.3 Form IV, tape.- For purposes of sampling, a lot shall consist of not more than 10,000 linear feet of tape of the same width produced in one plant under essentially the same conditions.

4.2.2 Examination.- A random sample of rolls of cloth, balls, reels or tubes of thread, or rolls or tubes of tape selected in accordance with table X from each lot shall be examined to verify conformance with this specification, with lot acceptance based on inspection requirements in accordance with Standard MIL-STD-105. Any roll, ball, reel, or tube in the sample containing one or more defects shall cause rejection of the item and if the number of defective rolls, balls, reels, or tubes in any sample exceeds the acceptance number for that sample, this shall cause rejection of the lot represented by the sample.

Table X - Sampling for examination AQL (approx.) = 2.5 percent defective.

Number of rolls of cloth, balls, reels or tubes of thread, or rolls or tubes of tape in lot	Number of rolls of cloth, balls, reels or tubes of thread, or rolls or tubes of tape in sample	Acceptance number (defective)	Rejection number (defective)
15 and under	5	0	1
16 to 40	7	0	1
41 to 65	10	0	1
66 to 110	15	1	2
111 and over	25	1	2

Note.- Approximately 7 yards shall be unrolled from the rolls of cloth, and 7 feet from the rolls or tubes of tape.

4.3 Tests.- A random sample of cloth, thread, or tape selected in accordance with table XI from each inspection lot of material shall be subjected to the applicable tests specified in 4.4. If the sample tested is found to be not in conformance with this specification, this shall cause rejection of the lot represented by the sample.

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Table XI - Sampling for tests.

Number of rolls of cloth, balls, reels or tubes of thread, or rolls or tubes of tape in lot	Number of rolls, balls, reels, or tubes in sample 1/
8 and under	2
9 to 15	3
16 to 40	4
41 to 65	5
66 and over	6

1/From each sample roll of cloth a sample strip of cloth 20 inches in length and the full width of the roll, or a 6-ounce ball, reel, or tube of thread, or 2 feet of tape the full width of the roll shall be taken.

4.4 Test procedures.-

4.4.1 Cloth.-

4.4.1.1 Hygroscopic moisture.- Five test specimens, each weighing not less than 5 grams, shall be weighed and then dried for 1 hour at 105° to 110°C. (221° to 230°F.) in an electric oven, cooled in a desiccator for one hour and again weighed. The loss in weight is termed the hygroscopic moisture. This weight divided by the weight of the sample and multiplied by 100 gives the percentage of hygroscopic moisture in the sample of cloth.

4.4.1.2 Asbestos content.- The asbestos content shall be determined in accordance with the method specified in ASTM Standard D1918-62T.

4.4.1.3 Breaking strength.- The breaking strength of the cloth shall be determined by method 5100 of Specification CCC-T-191.

4.4.1.4 Cloth construction.- The number of warp yarns and the number of filling yarns shall be determined by method 5050 of Specification CCC-T-191.

4.4.1.5 Weight.- The weight shall be determined in accordance with method 5040 of Specification CCC-T-191.

4.4.1.6 Width.- The width shall be determined in accordance with method 5020 of Specification CCC-T-191.

4.4.1.7 Length.- The length shall be determined in accordance with method 5010 of Specification CCC-T-191.

4.4.2 Thread.-

4.4.2.1 Breaking strength.- The breaking strength of the asbestos thread shall be determined on a standard textile tension testing machine. All tests shall be made on single strands. The single strands shall be broken after conditioning the tubes (or bobbins) for 12 hours in a standard atmosphere having a relative humidity of 65 percent and a dry-bulb temperature of 70°F., and the tension test shall be made under the above atmospheric conditions. A single-strand testing machine of proper capacity, with the clamps set 10 inches apart and having a speed of pulling clamp of 12 ± 1/2 inches per minute, shall be used. The clamp or device for holding the individual strand of material shall be of the flat grip, capstan, drum or other type, and shall be deemed to be satisfactory provided that not more than 25 percent of the specimens break at a point within 0.5 inch of the point of contact with the clamp or holding device. The average of four breaks from each of 10 tubes (or bobbins), taken at random from each case of 300 pounds or less, shall be the average breaking strength.

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4.4.3 Tape. -

4.4.3.1 Hygroscopic moisture and asbestos content. - The sample tape shall be tested for hygroscopic moisture and asbestos content as specified in 4.4.1.1 and 4.4.1.2, respectively.

4.4.3.2 Tape construction, number of ends and picks in woven tape. - (See method 5050 of Specification CCC-T-191.) When possible, in determining the ends per inch, the count shall be started 1/4 inch in from selvage and this number shall be divided by the width over which the count was made. Otherwise, the number of ends per inch shall be determined by counting the warp yarns in the full width of the tape and dividing the total number of ends by the inches of width. The number of picks shall be the average of the count made in three 5-inch lengths taken from each end and the middle of a 24-inch sample.

5. PREPARATION FOR DELIVERY

5.1 Domestic shipment and early use. -

5.1.1 Packaging. - Packaging shall be sufficient to afford adequate protection against physical damage during shipment from the supply source to the using activity and until early use and may conform to the supplier's commercial practice when such meets these requirements.

5.1.2 Packing. - Packing shall be accomplished in a manner which will insure acceptance by common carrier, at lowest rate, and will afford protection against physical or mechanical damage during direct shipment from the supply source to the using activity for early use. The shipping containers or method of packing shall conform to the Uniform Freight Classification Rules and Regulations or other carrier regulations as applicable to the mode of transportation and may conform to the supplier's commercial practice when such meets these requirements.

5.1.3 Marking. - Shipment marking information shall be provided on interior packages and exterior shipping containers in accordance with the contractor's commercial practice. The information shall include nomenclature, Federal stock number or manufacturer's part number, contract or order number, contractor's name and destination.

5.2 Domestic shipment and storage or overseas shipment. - The requirements and levels of preservation, packaging, packing and marking for shipment shall be specified by the procuring activity (see 6.2).

(Civil agencies should refer to Standard FED-STD-102 for definitions and applications of the various levels of packaging protection for supplies and equipment.)

5.2.1 The following provides various levels of protection during domestic shipment and storage or overseas shipment which may be required when procurement is made (see 6.2).

5.2.1.1 Packaging. -

5.2.1.1.1 Level A. -

5.2.1.1.1.1 Cloth. - Cloth in lengths and width as specified (see 6.2) shall be packaged in rolls. Each roll shall be completely wrapped in kraft paper, grade B, 60-pound basis-weight (24 by 36-500) conforming to Specification UU-P-268.

5.2.1.1.1.2 Thread. - Thread shall be furnished in balls, reels or tubes and in lengths as specified (see 6.2). Each ball, reel or tube shall be wrapped in kraft paper conforming to Specification UU-P-268.

5.2.1.1.1.3 Tape. - Tape shall be wound on tubes or rolls and in lengths and widths as specified (see 6.2). Each tube or roll shall be wrapped in kraft paper conforming to Specification UU-P-268.

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5.2.1.2 Packing. -

5.2.1.2.1 Level A. - Cloth, tape and thread packaged as specified in 5.2.1.1 shall be packed in containers conforming to any one of the following specifications at the option of the contractor:

Specification	Classification
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

Shipping containers shall have case liners conforming to Specification MIL-L-10547. Case liners shall be closed and sealed in accordance with the appendix to Specification MIL-L-10547. Case liners for fiberboard boxes conforming to Specifications 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. Shipping containers shall be closed, strapped or banded in accordance with the applicable box specification or appendix thereto. 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.

5.2.1.2.2 Level B. - Cloth, tape and thread packaged as specified in 5.2.1.1, shall be packed in containers conforming to any one of the following specifications at the option of the contractor:

Specification	Classification
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

Shipping containers shall be closed in accordance with the applicable box specification or appendix thereto. 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.

5.2.1.3 Marking. -

5.2.1.3.1 Civil agencies. - Shipment shall be marked in accordance with Standard FED-STD-123.

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

6. NOTES

6.1 Intended use. -

6.1.1 Form I, grade U.G., cloth and form IV, tape. - This cloth and tape are intended for use as the jacketing material over insulation where the temperature of the insulated surface is more than 125° F. (52° C.), except that they are not to be used on fittings and flanges, nor where they will be in contact with heated metal.

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6.1.2 Form I, grade AA cloth. - Grade AA cloth is intended for use as the outside surface on removable and replaceable covers for flanges and fittings where the temperature of the insulated surface does not exceed 500°F. (260°C.) or for the wrapping of engine exhaust pipes where the temperature of the metal in contact does not exceed 500°F. (260°C.).

6.1.3 Form I, grade AAA cloth. - Grade AAA cloth is intended for use as the outside surface on removable and replaceable covers for flanges and fittings where the temperature of the insulated surface is more than 500°F. (260°C.), or for the wrapping of exhaust pipes where the temperature of the metal in contact exceeds 500°F. (260°C.).

6.1.4 Form I, grade AAA-M cloth. - Grade AAA-M cloth is intended for use as the inside surface on removable and replaceable covers for flanges and fittings, or for the wrapping of engine exhaust pipes where the temperature of the metal in contact is over 500°F. (260°C.), but not exceeding 1000°F. (538°C.).

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

(a) Title, number, and date of this specification.
(b) Forms, grades, and style required (see 1.2.1)
(c) Size required (see 1.2.2 and 6.3.
(d) Packaging, packing or marking requirements other than those required by 5.1 (see 5.2).

6.3 Commercial sizes. -

6.3.1 Cloth. - Asbestos cloth is normally available in widths of 36 inches, 40 inches and 60 inches. It is normally supplied in rolls of 50 ± 5 yards. Form I, style 3 and style 4 cloth is commonly supplied in rolls of 100 yards ± 10 yards. Ten percent of the total number of rolls may contain two pieces.

6.3.2 Thread. - Sewing thread is normally available in 1-pound and 2-pound tubes.

6.3.3 Tape. - Asbestos tape is normally supplied in 50 and 100 foot rolls and in widths of 1, 1-1/4, 1-1/2, 2, 2-1/2, and 3 inches. Tape can be supplied in rolls of 100 feet in 2, 2-1/2, and 3-inch widths, if desired.

6.4 Transportation description. - Transportation description applicable to this item is:

Form I - Grades U.G., AA and AAA, all styles:
Asbestos cloth, not otherwise indexed by name.
Carload minimum weight 30,000 pounds.
Truckload minimum weight 30,000 pounds.
Form I - Grade AAA-M, style 1:
Asbestos cloth, wire reinforced.
Carload minimum weight 30,000 pounds.
Truckload minimum weight 30,000 pounds.
Forms II and III:
Thread, other than cotton.
Carload minimum weight 30,000 pounds.
Truckload minimum weight 30,000 pounds.
Form IV:
Tape, insulating, not otherwise indexed by name.
Carload minimum weight 30,000 pounds.
Truckload minimum weight 30,000 pounds.

Minimum weights shown apply when material is transported at classification ratings. They will vary when material moves on commodity rates. When in doubt consult General Services Administration Regional Traffic Manager.

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

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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.

Preparing Activity:
Navy - Ships
(Project 5640-N0228h)

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SPECIFICATION ANALYSIS SHEET
NAVSHIPS-4863 (8-61)

BUDGET BU. NO. 45-R309

INSTRUCTIONS

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 Bureau of Ships

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 dotted lines on reverse side, staple in corner, and send to Bureau of Ships, Specifications and Standardization Branch, Washington 25, D.C.

SPECIFICATION

ORGANIZATION	CITY	STATE

CONTRACT NO.	QUANTITY OF ITEMS PROCURED	DOLLAR AMOUNT
		$

MATERIAL PROCURED UNDER A DIRECT GOVERNMENT CONTRACT ☐ OR A 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 THE ANSWER IS "YES", IN WHAT WAY?

4. REMARKS *(Attach any pertinent data which may be of use in improving this specification.)* PLACE THIS FORM AND PAPERS IN AN ENVELOPE AND SEND TO THE BUREAU.

SUBMITTED BY *(Print name and activity)*	DATE

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