PLAINTIFF'S EXHIBIT SB 16
PENCAD-Bayonne, N. J.

SS-C-466
15 DECEMBER 1949

FEDERAL SPECIFICATION

CLOTH, YARN, THREAD, AND TAPE; ASBESTOS

This specification was approved on the above date by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal Agencies, and shall become effective not later than 20 April 1950, for use in procurement initiated on or after that date. It may be put into effect, however, at any earlier date after promulgation by the Administrator, General Services Administration.

1. CLASSIFICATION

1.1 **Types, grades, and classes.**—Asbestos cloth, yarn, thread, and tape covered by this specification shall be of the following types, grades, and classes, as specified:

Type I.—Cloth.
- Grade A.—80 percent asbestos, blue stripe.
  - Class 1.—Plain weave, regular weight.
  - Class 2.—Plain weave, light weight.
  - Class 3.—Twill weave.
  - Class 4.—Broken twill weave.
  - Class 5.—Combination asbestos and glass, plain weave.
- Grade B.—90 percent asbestos, red stripe.
  - Class 1.—Plain weave.
  - Class 3.—Twill weave.
- Grade C.—95 percent asbestos, wire insertion, no stripe.
  - Class 1.—Plain weave.
- Grade D.—95 percent asbestos, green stripe.
  - Class 1.—Plain weave, regular weight.
  - Class 2.—Plain weave, light weight.
  - Class 3.—Twill weave.

Type II.—Yarn, reinforced with wire.

Type III.—Thread, sewing, without wire.

Type IV.—Tape.
- Class 1.—Plain weave.

1.2 **Sizes.**—The asbestos cloth, yarn, thread, and tape shall be furnished in the sizes specified. (See 6.3.)

2. APPLICABLE SPECIFICATIONS

2.1 **Specifications.**—The following Federal Specification, of the issue in effect on date of invitation for bids, forms a part of this specification:

CCC-T-191—Textiles; General Specifications, Test Methods.

(Copies of Federal specifications and the Federal Specifications Index may be obtained upon application, accompanied by postal note, money order, coupon, or cash, to the Superintendent of Documents, Government Printing Office, Washington 25, D. C. Prices may be obtained from the Superintendent of Documents.)

2.2 Specifications and other publications applicable only to individual departments are listed in section 7.

3. REQUIREMENTS

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

3.1.1 *Asbestos.*—The dry asbestos fiber shall contain not less than 12 percent by weight of chemically combined water.

3.2 **Hygroscopic moisture.**—Hygroscopic moisture shall not exceed 3 percent. (See 4.3.1.2 and 4.3.3.1.)

3.3 **Type I, cloth.**

3.3.1 *Fabrication.*—All cloth shall be woven with 2-ply yarn.

3.3.2 *Grade A, 80 percent asbestos, blue stripe.*

3.3.2.1 *Class 1, plain weave, regular weight.*—The cloth shall contain not less than 80 percent asbestos. The construction shall be 18 ± 1 warp ends by 9 ± 1 picks per inch. The weight shall be 2.25 pounds per square yard, plus or minus 7 percent. The tensile strength shall meet the requirements of table I. A stripe of blue cotton yarn shall be woven in each edge.

3.3.2.2 *Class 2, plain weave, light weight.*—The cloth shall contain not less than 80 percent asbestos. The construction shall be 19 ± 1 warp ends by 10 ± 1 picks per inch. The weight shall be 1.40 pounds per square yard, plus or minus 7 percent. The tensile strength shall meet the requirements of table I. A stripe of blue cotton yarn shall be woven in each edge.

3.3.2.3 *Class 3, twill weave.*—The cloth shall contain not less than 80 percent asbestos. The construction shall be 27 ± 1 warp ends by 9 ± 1 picks per inch. The weave shall be 1 up and 2 down twill. The weight shall be 2.40 pounds

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per square yard, plus or minus 7 percent. The tensile strength shall meet the requirements of table I. A stripe of blue cotton yarn shall be woven in each edge.

3.3.2.4 *Class 4, broken twill weave.*—The cloth shall contain not less than 80 percent asbestos. The construction shall be 30±2 warp ends by 28±2 picks per inch. The weave shall be 1 up and 3 down broken twill. The weight shall be 22 ounces per square yard, plus or minus 7 percent. The tensile strength shall meet the requirements in table I. A stripe of blue cotton yarn shall be woven in each edge.

3.3.2.5 *Class 5, combination asbestos and glass, plain weave.*—The construction shall be 18±1 warp ends and 9±1 picks per inch. The yarn shall be 2-ply, composed of one 10-cut (number 1010) asbestos yarn containing not less than 80 percent asbestos, and one continuous filament glass yarn (number 225/3/2). The weight shall be 1.40 pounds per square yard, plus or minus 7 percent. The tensile strength shall meet the requirements of table I. A stripe of blue cotton yarn shall be woven in each edge.

3.3.3 *Grade B, 90 percent asbestos, red stripe.*

3.3.3.1 *Class 1, plain weave.*—The cloth shall contain not less than 90 percent asbestos. The construction shall be 18±1 warp ends by 9±1 picks per inch. The weight shall be 2.25 pounds per square yard, plus or minus 7 percent. The tensile strength shall meet the requirements of table I. A stripe of red cotton yarn shall be woven in each edge.

3.3.3.2 *Class 3, twill weave.*—The cloth shall contain not less than 90 percent asbestos. The construction shall be 27±1 warp ends by 9±1 picks per inch. The weight shall be 2.40 pounds per square yard, plus or minus 7 percent. The tensile strength shall meet the requirements in table I. A stripe of red cotton yarn shall be woven in each edge.

3.3.4 *Grade C, 95 percent asbestos, wire insertion, no stripe.*

3.3.4.1 *Class 1, plain weave.*—The cloth shall contain not less than 95 percent asbestos, exclusive of the wire insertion. The construction shall be 18±1 warp ends by 9±1 picks per inch. Warp and filling shall be two strands of asbestos yarn twisted with two strands of nickel-copper alloy wire. The wire shall contain not less than 60 percent nickel and shall be 0.008± 0.001 inch in diameter. The weight shall be 3.50 pounds per square yard, plus or minus 5 percent.

3.3.5 *Grade D, 95 percent asbestos, green stripe.*

3.3.5.1 *Class 1, plain weave, regular weight.*—The cloth shall contain not less than 95 percent asbestos. The construction shall be 18±1 warp ends by 9±1 picks per inch. The weight shall be 2.25 pounds per square yard, plus or minus 7 percent. The tensile strength shall meet the requirements of table I. A stripe of green cotton yarn shall be woven in each edge.

3.3.5.2 *Class 2, plain weave, light weight.*—The cloth shall contain not less than 95 percent asbestos. The construction shall be 19±1 warp ends by 10±1 picks per inch. The weight shall be 1.4 pounds per square yard, plus or minus 7 percent. The tensile strength shall meet the requirements of table I. A stripe of green cotton yarn shall be woven in each edge.

3.3.5.3 *Class 3, twill weave.*—The cloth shall contain not less than 95 percent asbestos. The construction shall be 27±1 warp ends by 9±1 picks per inch. The weight shall be 2.40 pounds per square yard, plus or minus 7 percent. The tensile strength shall meet the requirements of table I. A stripe of green cotton yarn shall be woven in each edge.

TABLE I.—*Breaking strength of asbestos cloth, minimum, pounds per inch width*

	As received		After heating to 200° F.	
	Warp	Filling	Warp	Filling
Grade A:				
Class 1	100	45	75	30
Class 2	80	40	60	30
Class 3	125	45	90	30
Class 4	80	70	60	48
Class 5	85	70	80	60
Grade B:				
Class 1	100	45	80	30
Class 3	150	45	125	30
Grade D:				
Class 1	145	45	135	40
Class 2	85	40	65	35
Class 3	150	45	140	40

3.3.6 *Tolerance in width.*—A tolerance of plus or minus ½ inch will be permitted in the specified width of cloth.

3.4 **Type II, yarn, 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 yarn shall be 10-cut and shall contain not less than 95 percent asbestos. The wire insertion shall contain not less than 60 percent nickel and shall be 0.008±0.001 inch in diameter.

3.5 **Type III, thread, sewing, without wire.**—The thread shall be made from yarn not heavier than 10-cut and shall contain not less than 77 percent asbestos. The yarn shall be given a sewing thread finish and shall retain its natural color. One pound of the thread shall provide not less than 450 yards. The tensile strength of the thread shall be not less than 10 pounds when tested as described in 4.3.2.

3.6 **Type IV, tape.**

3.6.1 *Class 1, plain weave.*—The tape shall contain not less than 80 percent asbestos. The construction shall be 16±1 warp ends by 8½ picks per inch. The warp yarn shall be 10-cut, 3-ply (No. 1030), and the filling shall be 10-cut, 2-ply (No. 1020). The tape shall be of plain weave and shall have selvage edges.

3.6.2 *Tolerance in width.*—A tolerance of plus or minus ⅛ inch will be permitted in the specified width of tape.

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

4. SAMPLING, INSPECTION, AND TEST PROCEDURES

4.1 **Sampling.**—Samples shall be taken by the inspector as follows:

4.1.1 *Cloth.*—A sample strip 20 inches in length and the full width of the roll shall be taken from each lot of 1,000 square yards or less, of each grade and class offered for delivery.

4.1.2 *Yarn and thread.*—A 6-ounce tube shall be supplied for each lot of 100 pounds or less, offered for delivery.

4.1.3 *Tape.*—A sample 24 inches long shall be taken from each lot of 10,000 linear feet or less, offered for delivery.

4.2 **Inspection.**—Cloth, yarn, thread, and tape shall be inspected by the Government inspector to determine compliance with the requirements of this specification.

4.3 **Tests.**

4.3.1 *Cloth.*

4.3.1.1 *Preparation of specimens.*—Specimens of the sample shall be prepared in accordance with the requirements of section VI of Federal Specification CCC–T–191.

4.3.1.2 *Hygroscopic moisture.*—Five test specimens, each weighing not less than 5 grams, shall be weighed and then dried to constant weight at 105° to 110° C. (221° to 230° F.) in an electric oven, cooled in a desiccator, 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.

4.3.1.3 *Asbestos content.*—Five test specimens, each weighing not less than 5 grams, and dried to constant weight at 105° to 110° C. (221° to 230° F.), shall be placed in a furnace and heated for not less than 1 hour at 800° to 810° C. (1,470° to 1,490° F.). After removal from the furnace, they shall be cooled in a desiccator to room temperature and then weighed. The weight of the residue shall be divided by 0.86 to determine the original weight of the asbestos content. The weight of the asbestos content shall be divided by the weight of the dried specimen and the quotient multiplied by 100 to obtain the percentage of asbestos. The average of five determinations shall be taken as the asbestos content.

4.3.1.4 *Chemically combined water.*—Certified samples of the type of asbestos carded fiber used in the manufacture of the asbestos cloth shall be supplied to the inspector to make determinations of chemically combined water. This test shall be made on an approximately 5-gram sample of fiber. The hygroscopic moisture shall be removed as specified in 4.3.1.2, the weight recorded, and the dried material ignited in an electric furnace at 800° to 810° C. (1,470° to 1,490° F.) for 1 hour. The difference between the dried weight and the residual weight of the ignited specimen, divided by the dried weight of the specimen and multiplied by 100,

gives the percentage of chemically combined water in the asbestos fiber.

4.3.1.5 *Breaking strength.*—The breaking strength of the cloth shall be determined by the grab method described in Federal Specification CCC-T-191. For determining the breaking strength after heating, an oven with automatic temperature control shall be used. Ten specimens 4 inches by 6 inches shall be cut; five with the 6-inch dimension parallel to the warp and five with the 6-inch dimension parallel to the filling. The specimens shall be supported on a wire screen or perforated metal plate at least 0.5 inch above the floor of the oven, and not more than five specimens shall be superimposed upon one another. The oven thermocouple shall be centrally located not more than 0.5 inch above the topmost specimen. The specimens shall be introduced into the ventilated oven with the temperature at 200° F. They shall remain in the oven for 2 hours, after which they shall be removed, allowed to cool to room temperature, and tested for breaking strength as specified above.

4.3.1.6 *Cloth construction.*—The number of warp yarns and number of filling yarns shall be determined as specified in Federal Specification CCC-T-191.

4.3.1.7 *Weight.*—The weight shall be determined in accordance with method No. 1 of Federal Specification CCC-T-191.

4.3.2 *Thread.*

4.3.2.1 *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±½ 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 4 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.

4.3.3 *Tape.*

4.3.3.1 *Hygroscopic moisture, asbestos content, and chemically combined water.*—The sample tape shall be tested for hygroscopic moisture, asbestos content, and chemically combined water as specified in 4.3.1.2, 4.3.1.3, and 4.3.1.4, respectively.

4.3.3.2 *Tape construction, number of ends and picks in woven tape.*—(See Fed. Spec. CCC-T-191, section XI, cloth construction.) The number of warp ends shall be determined by counting the yarns in the full width of the tape and dividing the number by the inches of width to find the number of ends per inch. 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 Packaging.—Unless otherwise specified, commercial packages will be acceptable.

5.2 Packing.—The subject commodity shall be packed in substantial commercial containers of the type, size, and kind commonly used for the purpose, so constructed as to permit acceptance by carrier for transportation at the lowest applicable rate and to afford maximum protection from normal hazards of transportation.

5.3 Marking.—Unless otherwise specified, shipping containers shall be marked with the name of the commodity, the type, grade, and class (where applicable), and the quantity contained therein, as defined by the contract or order under which shipment is made, the name of the contractor, and the number of the contract or order.

6. NOTES

6.1 Intended use.

6.1.1 *Type I, grade A cloth, and type IV tape* are intended for use as the jacketing material over insulation where the temperature within the insulation is more than 500° F. (260°

C.), except that it is not to be used on fittings and flanges, nor where it will be in contact with heated metal.

6.1.2 *Type I, grade B* cloth is intended for use as the inside cover on removable and replaceable covers for flanges and fittings, or for the wrapping of engine exhaust pipes, where the metal in contact is not more than 600° F. (315° C.).

6.1.3 *Type I, grade C* cloth is intended for the same purpose as type I, grade B cloth, but where the metal in contact is more than 600° F. (315° C.).

6.1.4 *Type I, grade D* cloth is intended for the same conditions as type I, grade C cloth, but where a more flexible cloth is desired.

6.2 **Ordering data.**—Purchasers should specify the type and size of cloth, yarn, thread, and tape required, the grade and class (where applicable), and should exercise any desired options offered herein. (See 1.1, 1.2, 5.1, 5.3, 6.3, 7.2.2, and 7.3.4.)

6.3 **Commercial sizes.**

6.3.1 *Cloth.*—Asbestos cloth is normally available in widths of 36 inches and 40 inches. It is commonly supplied in rolls of 50 yards, and can be furnished in rolls of 25 and 100 yards. Special widths can be supplied if desired.

6.3.2 *Yarn and thread.*—Asbestos reinforced yarn and sewing thread is normally available in 1-pound and 2-pound tubes.

6.3.3 *Tape.*—Asbestos tape is normally supplied in 50-foot rolls and in widths of 1, 1¼, 1½, 2, 2½, and 3 inches. Tape can be supplied in rolls of 100 feet in 2, 2½, and 3-inch widths, if desired.

6.4 **Bid samples.**—It is believed that this specification adequately describes the characteristics necessary to secure the desired materials, and that normally no samples will be necessary prior to award to determine compliance with the specification. If, for any particular purpose, samples with bids are necessary, they should be specifically asked for in the invitation for bids, and the particular purpose to be served by the bid sample shall be definitely stated, the specification to apply in all other respects.

6.5 Federal specifications do not include all types, classes, sizes, etc., of the commodities indicated by the titles of the specifications, or which are commercially available, but are intended to cover the types, classes, etc., which are suitable for Federal Government requirements.

Patent 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.

7. DEPARTMENTAL REQUIREMENTS

7.1 The following specifications and other publications, of the issues in effect on date of invitation for bids, and special requirements, form a part of this specification for purchases made under this specification by the respective departments.

7.2 **Army.**

7.2.1 *Applicable specifications.*—

Federal Specifications:

UU–P–268—Paper; Kraft, Wrapping.

LLL–B–631—Boxes; Fiber, Corrugated (for Domestic Shipment).

LLL–B–636—Boxes; Fiber, Solid (for Domestic Shipment).

Military Specifications:

JAN–P–103—Packaging and Packing for Overseas Shipment—Boxes; Wood Cleated; Solid Fiberboard.

JAN–P–105—Packaging and Packing for Overseas Shipment—Boxes, Wood, Cleated, Plywood.

JAN–P–106—Packaging and Packing for Overseas Shipment—Boxes; Wood, Nailed.

JAN–B–107—Boxes, Wood, Wirebound (Overseas Type).

JAN–P–125—Packaging and Packing for Overseas Shipment—Barrier-Materials, Waterproof, Flexible.

JAN–P–140—Packaging and Packing for Overseas Shipment—Adhesives, Water-Resistant, Case-Liner.

U. S. Army Specifications:

100–1—Baling of Clothing and Equipage.

100–2—Standard Specification for Marking Shipments by Contractors.

(Copies of specifications required for Army purchases may be obtained upon application to the procuring agency. Both the title and identifying symbol or number should be stipulated when requesting copies.)

7.2.2 *Packaging.*

7.2.2.1 *Cloth.*—Cloth in lengths and widths as specified in the contract or order shall be packaged in rolls. Each roll shall be completely wrapped with kraft paper, grade B, 60-pound-basis-weight (24 x 36—500), conforming to Federal Specification UU–P–268.

7.2.2.2 *Yarn and thread.*—Yarn and thread shall be furnished in balls, reels, or tubes and in lengths, as specified in the contract or order. Each unit shall be wrapped with kraft paper conforming to Federal Specification UU–P–268.

7.2.2.3 *Tape.*—Tape shall be wound on tubes or rolls in lengths and widths as specified in the contract or order. Each unit shall be wrapped with kraft paper conforming to Federal Specification UU–P–268.

7.2.3 *Packing.*

7.2.3.1 *For domestic shipment.*

7.2.3.1.1 *Cloth.*—Each roll of cloth, packaged as specified in 7.2.2.1, shall be inserted into a bias sewn tubing (osnaburg or burlap) in accordance with the requirements for tubular type bale of U. S. Army Specification 100–1.

7.2.3.1.2 *Yarn, thread, or tape.*—Yarn or thread, packaged as specified in 7.2.2.2, or tape, packaged as specified in 7.2.2.3, shall be packed in containers constructed in accordance with the requirements of one of the following specifications:

Federal Specifications:

LLL–B–631, style RSC.
LLL–B–636, style RSC.

Military Specifications:

JAN–P–103, style A or B, type 2 load.
JAN–P–105, style A or B, type 2 load.
JAN–P–106, style 2, 2½, or 4; type 2 load.
JAN–B–107, style 2, 2A, or 3; type 2 load.

7.2.3.2 *For overseas shipment.*

7.2.3.2.1 *Cloth.*—Each roll of cloth, packaged as specified in 7.2.2.1, shall be overwrapped and sealed with waterproof barrier material conforming to the requirements for type C–1 of Military Specification JAN–P–125. Adhesive used shall be in accordance with Military Specification JAN–P–140.

7.2.3.2.2 *Yarn, thread, or tape.*—Yarn, thread, or tape shall be packed in containers constructed, sealed, and strapped in accordance with the requirements of one of the following Military Specifications:

JAN–P–103, style A or B, type 2 load.
JAN–P–105, style A or B, type 2 load.
JAN–P–106, style 2, 2½, or 4; type 2 load.
JAN–B–107, style 2, 2A, or 3; type 2 load.

7.2.3.2.3 *Liner requirements.*—Each overseas shipping container shall be provided with a sealed case liner or prefabricated bag constructed in accordance with the requirements of Military Specification JAN–P–125, type L–2 or M. Closure and seams shall be effected by using adhesive conforming to Military Specification JAN–P–140.

7.2.4 *Marking.*—Each shipping container shall be marked in accordance with the requirements of U. S. Army Specification 100–2.

7.3 Navy.

7.3.1 *Applicable specifications and other publications.*—

Federal Specifications:

NN–B–591—Boxes, Wood-Cleated-Fiberboard.
NN–B–601—Boxes, Wood-Cleated-Plywood, for Domestic Shipment.
NN–B–621—Boxes, Wood, Nailed and Lock-Corner.
NN–B–631—Boxes, Wood Wirebound, for Domestic Shipment.
LLL–B–631—Boxes, Fiber, Corrugated (for Domestic Shipment).
LLL–B–636—Boxes, Fiber, Solid (for Domestic Shipment).

Military Specifications:

JAN–P–105—Packaging and Packing for Overseas Shipment—Boxes, Wood, Cleated, Plywood.
JAN–P–106—Packaging and Packing for Overseas Shipment—Boxes; Wood, Nailed.
JAN–B–107—Boxes, Wood, Wirebound (Overseas Type).

JAN-P-108—Packaging and Packing for Overseas Shipment—Boxes, Fiberboard (V-Board and W-Board), Exterior and Interior.
JAN-P-125—Packaging and Packing for Overseas Shipment—Barrier-Materials, Waterproof, Flexible.
JAN-P-138—Packaging and Packing for Overseas Shipment—Boxes, Wood, Fiberboard-Lined.
JAN-P-140—Packaging and Packing for Overseas Shipment—Adhesives, Water-Resistant, Case-Liner.

Navy Department Specification:

General Specifications for Inspection of Material.

Bureau of Supplies and Accounts Publication:

Navy Shipment Marking Handbook.

(Copies of Federal and Military specifications required for Navy purchases, Navy Department specifications, and the Navy Shipment Marking Handbook may be obtained without cost upon application to the Bureau of Supplies and Accounts, Navy Department, Washington 25, D. C., except that Naval activities should make application to the Supply Officer in Command, Naval Supply Center, Norfolk 11, Va. Both the title and identifying symbol or number should be stipulated when requesting copies of specifications.)

7.3.2 *Packing.*

7.3.2.1 *For domestic shipment.*—The subject commodity, packaged as described in 5.1, shall be packed in substantial commercial containers of the type, size, and kind commonly used for the purpose, so constructed as to insure acceptance and safe delivery by common or other carrier, at the lowest rate, to the point of delivery. When wood-cleated fiberboard boxes, wood-cleated plywood boxes, nailed wood boxes, wire-bound wood boxes, corrugated fiber boxes, or solid fiber boxes are used, they shall conform to the requirements of Federal Specifications NN-B-591, NN-B-601, NN-B-621, LLL-B-631, and LLL-B-636, respectively. The gross weight of wood boxes shall not exceed approximately 200 pounds; of fiberboard boxes, approximately 70 pounds.

7.3.2.2 *For overseas shipment.*—The subject commodity, packaged as described in 5.1, shall be packed in cleated plywood boxes, nailed wood boxes, wire-bound wood boxes, fiberboard boxes, or fiberboard-lined wood boxes conforming to the requirements of Military Specifications JAN-P-105, JAN-P-106, JAN-B-107, JAN-P-108, and JAN-P-138, respectively. Shipping containers shall be lined with a sealed waterproof bag, or its equivalent, made from material conforming to the requirements of Military Specification JAN-P-125. The seams and closures shall be sealed with water-resistant adhesive conforming to the requirements of Military Specification JAN-P-140. The gross weight of wood boxes shall not exceed approximately 200 pounds; of fiberboard boxes, approximately 70 pounds.

7.3.3 *Marking.*—In addition to any special marking required by the contract or order, marking of interior packages and shipping containers shall be in accordance with the requirements of the Navy Shipment Marking Handbook.

7.3.4 *Ordering data.*—Requests, requisitions, schedules, and contracts or orders should specify whether the subject commodity is to be packed and shipping containers marked for domestic or overseas shipment. (See 7.3.2 and 7.3.3.)

7.3.5 *Naval shipboard applications.*—When considering the procurement of items under this specification for Naval shipboard applications, Section S39-2 of the General Specifications for Machinery for Vessels of the United States Navy should be referred to for intended uses.

NAVY: ShS.

7.4 Air Force.

7.4.1 *Applicable specifications.—*
Military Specifications:

JAN-P-105—Packaging and Packing for Overseas Shipment—Boxes, Wood, Cleated, Plywood.
JAN-P-106—Packaging and Packing for Overseas Shipment—Boxes; Wood, Nailed.
JAN-P-125—Packaging and Packing for Overseas Shipment—Barrier-Materials, Waterproof, Flexible.
JAN-P-140—Packaging and Packing for Overseas Shipment—Adhesives, Water-Resistant, Case-Liner.

U. S. Army Specification:

94–40645—Marking; Exterior, Domestic and Export Shipment, by Contractors.

(Copies of specifications required for Air Force purchases may be obtained from the Commanding General, Air Matériel Command, Wright-Patterson Air Force Base, Dayton, Ohio.)

7.4.2 *Exterior packing for overseas shipment.*—Asbestos cloth, yarn, thread, or tape, packaged as specified in 5.1, shall be packed in cleated plywood boxes or nailed wood boxes meeting the requirements of Military Specification JAN–P–105 and JAN–P–106, respectively. Each exterior container shall be furnished with a sealed case-liner fabricated from barrier-material conforming to Military Specification JAN–P–125. All seams and closures shall be sealed with adhesive conforming to Military Specification JAN–P–140.

7.4.3 *Marking.*

7.4.3.1 *Interior packages.*—Each of the interior packages, when required, shall be durably and legibly marked with the following information in such a manner that the markings will not become damaged when the packages are opened. If no interior package is required, this information shall be marked on a linen tag and securely attached to the commodity:

Cloth, Yarn, Thread, and Tape; Asbestos.
Type.
Grade and class (as applicable).
Fed. Spec. SS–C–466.
Order number (Government).
Stock number (procuring agency).
Date of manufacture.
Quantity.
Manufacturer's name or trade-mark.
Name of contractor (if not the same as the manufacturer).

7.4.3.2 *Exterior shipping containers.*—Each exterior shipping container shall be marked in accordance with U. S. Army Specification 94–40645.

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