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EXECUTIVE OFFICE OF THE PRESIDENT
Office of Emergency Preparedness

Prepared and Issued by the Industrial Resources Division
Bureau of Domestic Commerce
Department of Commerce

NATIONAL STOCKPILE
SPECIAL INSTRUCTIONS

SI-4-R3
Effective Date
September 24, 1971
(Supersedes issue
of March 19, 1965)

ASBESTOS-AMOSITE

PURPOSE OF THE SPECIAL INSTRUCTIONS

These Special Instructions are an administrative device providing direction, guidance, and information to the General Services Administration relating to the (a) qualities of amosite asbestos which are to be acquired under current procurement authorization, (b) qualities of materials which may currently be acquired by surplus transfer from other Government agencies, (c) procedures of sampling, inspection, and testing, (d) special record keeping consistent with emergency planning for the continuity of Government, (e) refining, processing or beneficiation, (f) standards and formulas for crediting various forms or grades of material to primary objectives and presentation of data in inventory records, (g) packaging, marking, identification, shipping, storage, segregation, rotation, and precautions (in brief) including special authorities for repackaging, (h) disposal criteria if authorized for sale, and (i) other references useful in National Stockpile planning and management activities.

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National Stockpile Special Instructions: Asbestos, Amosite (1971)
ACL Doc 10935 · Page 1 of 26
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I. DESCRIPTION

These Special Instructions cover the following listed stockpile grades f amosite asbestos suitable for use in making woven insulating felt, heat insulation (pipe-covering, block and segments), and marine insulating board.

COMMERCIAL GRADES OF
AMOSITE ASBESTOS LISTED
FOR STOCKPILING 1946

Grade	Average Length (In.)	Notes	References
* B1	4 - 6	Replaced by D3. B1 is a longer, high grade fiber of better color and contains less impurities than B3 or D3.	G4 Nov. 13, 1951
* D3	2 - 6		P4 Aug. 27, 1946
* B3	2 - 6	Replaced By D3.	G4R Sept. 14, 1953
* DX	1 - 2		
* D11	1 - 2		
3DM1	1 - 6	Mixture of D3 extended by addition of D11 and/or DX	SI-4
M	3/4 - 2		
MD	3/4 - 2		
K3	½ - 2		
W3	½ - 2		
M1	3/16 - 2	Mixture of DX-M-K3-S2	G4R Sept. 14, 1953

* Inventory 9-30-64 of these grades equals objective.

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II. PURCHASE

All amosite asbestos hereafter acquired by purchase shall be equal to or better than that mined in the Transvaal region in the Union of South Africa and shall conform to the requirements for standard grades regularly used commercially as specified in the National Stockpile Purchase Specifications for Asbestos-Amosite, P-4, latest revision.

III. ACCEPTANCE

(Not applicable, inventory exceeds objective.)

IV. SAMPLING, INSPECTION, AND TESTING

Amosite asbestos shall be accepted on the basis of sampling, inspection, and testing by the recipient Government agency or its designee. Any Government records of prior inspection and testing of a given lot, satisfactorily identifiable and acceptable to the recipient Government agency, may be used in lieu of a new inspection and testing.

V. REFINING, PROCESSING, OR BENEFICIATION

None

VI. CREDITING TO STOCKPILE OBJECTIVE

A. Amosite asbestos conforming to the requirements of all current and prior Stockpile Purchase Specifications, Acceptance Specifications, or Special Instructions, shall be creditable to the stockpile inventory objective on the basis of weight (short tons) and actual grade as received.

B. The Purchase Specifications, P-4, latest revision, is adequate for current and foreseeable requirements. However, consumption trends for amosite asbestos have changed due to the unavailability and the cost factor of certain grades, especially the longer fibers. Technological advances by industry have resulted in greater consumption of shorter fibers. In molded products, when a wet mix is used, long fibers may "rope" or "clot". Long fiber amosite asbestos can be reduced in size but it is not economically feasible under current processing techniques.

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Based upon the foregoing, the table below lists short tons and percentages by weight to be held for the amosite asbestos objective:

Quantities of the Different Grades Amosite Asbestos to be Retained for the Stockpile Objective

Short Tons	Grade	Percent by Weight
9,200	D3	50.0
2,500	DX	13.6
1,631	DII	8.9
2,319	K3	12.6
1,000	M	5.4
750	MD	4.1
1,000	W3	5.4
18,400 Total Objective		100.0

If at some future time, acquisition of amosite asbestos for stockpiling becomes necessary, BDC should, at that time, survey industry with particular emphasis upon the adequacy of the Purchase Specifications regarding the most desirable grades to purchase.

VII. RECORD KEEPING

An inventory record showing the quantity of amosite asbestos in the inventory on the basis of original grade or symbol, acquired by purchase or accepted by transfer, shall be maintained. A summary shall be prepared annually and furnished to designated Government agencies for retention at the National Emergency Relocation Centers.

VIII. PACKAGING, MARKING, IDENTIFICATION, AND SHIPPING

A. Packaging:

The amosite asbestos shall be pressurized packed in new bags with a heat-sealed polyethylene liner. Bags shall be equal to 12-ounce burlap Type I, No. B-6, or 8-ounce osnaburg Type II, No. C-52 in Federal Specification PPP-B-35 (latest admendments or revision): Bags: Textile, Shipping, Burlap, Cotton and Waterproof Laminated. Burlap or Cotton fabric used for bags shall be treated with an approved deterioration preventive agent. Polyethylene liner shall be black, 4 to 5 mils thick.

All bags comprising any lot shall be of the same nominal size and shape.

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B. Marking:

Each bag of amosite acquired by purchase shall be permanently and legibly marked in English. The marking shall be stencilled or printed in letters not less than 1-inch high and shall include the following:

Name of Product
Name of Supplier
Country of Origin
Month and Year Packed
Name and Location
(Including State or Province) of Mine
Grade
Gross and Net Weights
Government Contract Number
Lot Number and Bag Serial Number, e.g., 1/20, 2/20, etc.)
Handle With Care
Wear Bureau of Mines Approved Respirator

The marking shall not include a security classification or anything indicating National Stockpile ownership other than the contract number.

Bags of amosite asbestos accepted by transfer (See Section III), should be marked as stated above except the National Stockpile number should be used in lieu of or in addition to the Government contract number.

C. Identification:

Appropriate identifying documents shall accompany each shipment and shall include the number of bags.

D. Shipping:

All amosite asbestos shall be loaded, braced, and blocked in carrier's conveyances, in compliance with applicable rules and regulations set forth in carrier's classifications and other tariffs. For rail shipments, the applicable rules and regulations published by the Association of American Railroads (AAR) in Pamphlet Nos. 3 and 14, and Circular No. 42, latest revisions, shall be followed.

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IX. STORAGE, SEGREGATION, AND ROTATION

A. Storage:

Amosite asbestos shall be stored in bags in dry sprinklered warehouses, or in tanks or wooden bins. (See Strategic and Critical Materials Storage Manual.)

B. Segregation:

Amosite asbestos shall be segregated in storage by program, grade, lot number, and country of origin. (See Strategic and Critical Materials Storage Manual.)

C. Rotation:

None

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X. PRECAUTIONS

Asbestosis is a lung disease caused by inhalation of asbestos dust, usually over a long period of time such as might be the exposure of weavers. Handling of bags which are not broken or leaking is considered safe, but protective devices should be worn when asbestos is handled in bulk.

Recommended health safety practices for handling amosite asbestos fibre are as follows:

A. Workmen involved in the unloading, handling and storage of amosite asbestos should be made aware of the health risks, known or suspected and take protective measures to eliminate excessive exposure that may be injurious.

B. Upon opening railroad cars, trucks or ship holds containing shipments of asbestos fibre, all loose fibre should be removed by vacuum cleaning prior to unloading. Workmen involved in the cleaning should wear Bureau of Mines approved respiratory equipment for pneumoconiosis producing dusts.

C. During the unloading, no hooks should be used. Spillage should be vacuum cleaned immediately. Repack, reseal or discard any broken bags to prevent distribution of loose fibre into other areas.

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D. If loose fibre has accumulated on adjacent bags during transit, they should be vacuum cleaned before palletizing and stockpiling.

E. Transporting bags into the warehouse should be done in a manner that will not cause bag damage.

F. During storage, if bags are damaged by passing fork trucks or other causes, bags should be sealed and any spillage vacuum cleaned.

G. If large quantities of spillage occurs and cleaning involves sweeping and/or shoveling, Bureau of Mines approved type of respiratory equipment for pneumoconiosis producing dusts should be worn.

Bags shall be kept dry to prevent mildew of bags and resulting deterioration which might contaminate asbestos with bag particles. (See Strategic and Critical Materials Storage Manual).

XI. DISPOSAL

Since there is a normal and substantial demand for shorter fibers and since there is some doubt about the efficacy of reducing the length of longer fibers, it is evident that disposal plans should provide for retention of some lower grades, based upon survey of requirements at the time of disposal.

Deterioration or contamination of amosite asbestos containers may require prior selection of certain lots, as might consideration of the strategic locations as identified in the Storage Plan and Policies, or the need to evacuate military storage facilties scheduled by the Department of Defense for closing and not economically operable as separate Stockpile facilities.

XII. REFERENCES (Latest Revisions)

Association of American Railroads:
Circular No. 42-B and Pamphlet No. 3 and 14
Federal Specification PPP-B-35
National Stockpile Purchase Specifications, P-4
Bureau of Mines:
Information Circular 7880-Asbestos
Minerals Facts & Problems

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Business and Defense Services Administration
Department of Commerce

NATIONAL STOCKPILE
SPECIAL INSTRUCTIONS

SI-4-R2

March 19, 1965
(Supersedes issue of
March 30, 1962)

ASBESTOS-AMOSITE

PURPOSE OF THE SPECIAL INSTRUCTIONS

These Special Instructions are an administrative device providing direction, guidance, and information to the General Services Administration relating to the (a) qualities of amosite asbestos which are to be acquired under current procurement authorization, (b) qualities of materials which may currently be acquired by surplus transfer from other Government agencies, (c) procedures of sampling, inspection, and testing, (d) special record keeping consistent with emergency planning for the continuity of Government, (e) refining, processing or beneficiation, (f) standards and formulas for crediting various forms or grades of material to primary objectives and presentation of data in inventory records, (g) packaging, marking, identification, shipping, storage, segregation, rotation, and precautions (in brief) including special authorities for repackaging, (h) disposal criteria, and (i) other references useful in National Stockpile planning and management activities.

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National Stockpile Special Instructions: Asbestos, Amosite (1971)
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I. DESCRIPTION

These Special Instructions cover the following listed stockpile grades of amosite asbestos suitable for use in making woven insulating felt, heat insulation (pipe-covering, block and segments), and marine insulating board.

COMMERCIAL GRADES OF AMOSITE ASBESTOS LISTED FOR STOCKPILING 1946

Grade	Average Length (In.)	Notes	References
* B1	4 - 6	Replaced by D3. B1 is a longer, high grade fiber of better color and contains less impurities than B3 or D3.	G4 Nov. 13, 1951
* D3	2 - 6		P4 Aug. 27, 1946
* B3	2 - 6	Replaced by D3.	G4R Sept. 14, 1953
* DX	1 - 2		
* D11	1 - 2		
3DM1	1 - 6	Mixture of D3 extended by addition of D11 and/or DX.	SI-4
M	3/4 - 2		
MD	3/4 - 2		
K3	1/2 - 2		
W3	1/2 - 2		
M1	3/16 - 2	Mixture of DX-M-K3-S2	G4R Sept. 14, 1953

* Inventory 9-30-64 of these grades equals objective.

II. PURCHASE

All amosite asbestos hereafter acquired by purchase shall be equal to or better than that mined in the Transvaal region in the Union of South Africa and shall conform to the requirements for standard grades regularly used commercially as specified in the National Stockpile Purchase Specification for Asbestos Amosite, P-4, Latest Revision.

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III. ACCEPTANCE

(Not applicable, inventory exceeds objective.)

IV. SAMPLING, INSPECTION, AND TESTING

Amosite asbestos shall be accepted on the basis of sampling, inspection, and testing by the recipient Government agency or its designee. Any Government records of prior inspection and testing of a given lot, satisfactorily identifiable and acceptable to the recipient Government agency, may be used in lieu of a new inspection and testing.

V. REFINING, PROCESSING, OR BENEFICIATION

None.

VI. RECORD KEEPING

An inventory record showing the quantity of amosite in the inventory on the basis of original grade or symbol, acquired by purchase or accepted by transfer, shall be maintained. A summary shall be prepared annually and furnished to designated Government agencies for retention at the National Emergency Relocation Centers.

VII. CREDITING TO STOCKPILE OBJECTIVE

A. Amosite asbestos conforming to the requirements of all current and prior Stockpile Purchase Specifications, Acceptance Specifications or Special Instructions, shall be creditable to the stockpile inventory objective on the basis of weight (short tons) and actual grade as received.

B. A survey of amosite consumers in 1959 by the Business and Defense Services Administration, Department of Commerce, indicated that the longer grades of amosite could be used for products now made from shorter grades without causing fabricating problems or reducing quality. Consumers have changed to shorter fibers because of lower price. Amosite can be reduced in length rather easily. The longer lengths increase the quality of insulating products. Based on the foregoing, the quantity of amosite retained and credited to the objective shall be selected from the inventory in decreasing quality order as listed in Table 1, Section I of these Instructions. All lower grade inventories not required to complete the objectives shall be reported as excess for disposal consideration.

III. DISPOSAL CRITERIA (QUALITATIVE, STRATEGIC, OPERATIONAL)

Since the longer fibers provide a full range of usefulness, it is evident that the selection of amosite from time to time for disposal should be made progressively from the lower grades containing the shortest fibers, all other factors being equal. (Table I, Section I)

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Deterioration or contamination of amosite containers may require prior selection of certain lots, as might consideration of the strategic locations as identified in the Storage Plan and Policies, or the need to evacuate military storage facilities scheduled by the Department of Defense for closing and not economically operable as separate Stockpile facilities.

X. PACKAGING, MARKING, IDENTIFICATION, AND SHIPPING

A. Packaging:

Amosite acquired by purchase shall be packed in new bags equal to 12 ounce burlap Type 1, No. B-6, or 8-ounce osnaburg Type 11, No. C-52 in Federal Specification PPP-B-35: Bags, Textile, Shipping, Burlap, Cotton and Waterproof Laminated. The burlap or cotton fabric shall be treated with an approved deterioration preventive agent. The amosite shall be packed in bags with seam side out to prevent contamination f the asbestos fiber with material from the bag. Each bag shall contain not more than 150 pounds of amosite.

Amosite requiring repackaging in storage shall be packed in the type f bags designated above.

All bags comprising any lot shall be the same type and of the same nominal size and shape.

B. Marking:

Each bag of amosite acquired by purchase shall be permanently and legibly marked in English. The marking shall include the following:

Name of Product
Name of Supplier
Country of Origin
Name and Location (Including State or Providence) of Mine
Grade
Gross and Net Weights
Government Contract Number
Lot Number and Bag Serial Number (e.g., 1/20, 2/20, etc.)

Shipments of amosite shall be accepted in osnaburg bags or in closely woven burlap bags, stencilled or printed in letters not less than 1-inch high.

The marking shall not include a security classification or anything indicating National Stockpile ownership other than the contract number.

Bags of amosite accepted by transfer (See Section III) should be marked as stated ab ve except the National Stockpile number should be used in lieu of or in addition to the Government contract number.

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C. Identification:

Appropriate identifying documents shall accompany each shipment and shall include the number of bags.

D. Shipping:

All amosite shall be loaded, braced, and blocked in carrier's conveyances, in compliance with applicable rules and regulations set forth in carriers' classifications and other tariffs. For rail shipments, the applicable rules and regulations published by the Association of American Railroads (AAR) in Pamphlet No. 3 and Circular No. 42-B, Latest Revision, shall be followed.

X. STORAGE, SEGREGATION, AND ROTATION

A. Storage:

Amosite shall be stored in bags in dry warehouses. (See Strategic and Critical Materials Storage Manual.)

B. Segregation:

Amosite shall be segregated by program, grade, lot and country of origin.

C. Rotation:

None.

XI. PRECAUTIONS

Asbestosis is a lung disease caused by inhalation of asbestos dust, usually over a long period of time such as might be the exposure of weavers. Bag handling is considered safe but protective devices should be worn when asbestos is handled in bulk.

Bags shall be kept dry to prevent mildew of bags and resulting deterioration which might contaminate asbestos with bag particles. (See Strategic and Critical Materials Manual)

XII. REFERENCES

Association of American Railroads:
Circular No. 42-B
Pamphlet No. 3
Federal Specification PPP-B-35
National Stockpile Purchase Specification, P-4, Latest Revision
Bureau of Mines:
Information Circular 7880-Asbestos
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Prepared and Issued by the Industrial Resources Division
Bureau of Domestic Commerce
Department of Commerce

NATIONAL STOCKPILE
PURCHASE SPECIFICATIONS

P-4-R6
Effective Date
September 27, 1971
(Supersedes issue f
December 5, 1963)

ASBESTOS-AMOSITE

I. DESCRIPTION

These specifications cover certain commercial grades of amosite asbestos suitable for use in making woven insulating felt, heat insulation (pipe covering, block and segments), and marine insulating board.

II. CHEMICAL AND PHYSICAL REQUIREMENTS

A. Each lot of amosite purchased under these specifications shall be equal to or better than that mined in the Transvaal region in the Union f South Africa and shall conform to requirements for the standard grade regularly used commercially as follows:

Grade or Symbol	Average Length of Fibers to be within these Ranges	Designation
D11 or Dx	1 - 2 inches	Medium-Long
MD or M	3/4 - 2 inches	Medium
K3 or W3	1/2 - 2 inches	Medium-Short

The average length of fibers for any of the grades in the tabulation above represents a weighted average obtained by manual separation f the fibers in a sample into groups or lots of approximately equal length, weighing each group in grams and multiplying grams by length in inches to give a number called "gram-inches". The total sum f the various gram-inches in a sample divided by the sum of the various grams (total weight) in that sample will be the weighted average length of that sample in inches.

B. Amosite asbestos shall not contain more than two percent by weight f moisture.

C. Amosite asbestos shall not contain metal or other objectionable matter, and shall not contain more than five percent by weight of other foreign matter. Foreign matter consists of all material other than amosite fiber.

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III. PACKAGING, MARKING, IDENTIFICATION, AND SHIPPING

A. Packaging:

The amosite asbestos shall be pressurized packed in new bags with a heat-sealed polyethylene liner. Bags shall be equal to 12-ounce burlap Type I, No. B-6; or 8-ounce osnaburg Type II, No. C-52 in Federal Specification PPP-B-35 (latest amendments or revisions): Bags: Textile, Shipping, Burlap, Cotton and Waterproof Laminated. Burlap or Cotton fabric used for bags shall be treated with an approved deteriorations preventive agent. Polyethylene liner shall be black, 4 to 5 mils thick.

All bags comprising any lot shall be of the same nominal size and shape.

B. Marking:

Each bag of amosite asbestos shall be permanently and legibly marked in English. The marking shall include the following:

Name of Product
Name of Supplier
Country of Origin
Month and Year Packed
Name and Location
(Including State or Province) of Mine
Grade
Gross and Net Weights
Government Contract Number
Lot Number and Bag Serial Number, e.g., 1/20, 2/20, etc.
HANDLE WITH CARE
WEAR BUREAU OF MINES APPROVED RESPIRATOR

The marking shall be stenciled or printed in letters not less than 1 inch high. Additionally, a distinctive color marking shall be applied to both ends of all bags in each contract lot with non-water base material, which shall not penetrate to the amosite fiber.

Bags shall not carry a security classification or any marking, ther than the contract number, indicating National Stockpile ownership.

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C. Identification:

Appropriate identifying documents shall accompany each shipment and shall include the number of bags.

D. Shipping:

All amosite asbestos shall be loaded, braced, and blocked in carrier's conveyance, in compliance with applicable rules and regulations set forth in carrier's classifications and other tariffs. For rail shipments, the applicable rules and regulations published by the Association of American Railroads (AAR) in Pamphlet Numbers 3 and 14, and Circular No. 42, latest revisions, shall be followed.

IV. SAMPLING, INSPECTION, AND TESTING

Each lot of amosite asbestos shall be subject to sampling, inspection, and testing by the purchaser or his designees.

Manual separation and actual measurement of the fibers as received from the supplier shall be used to determine compliance with Section II. A.

Five-pound samples shall be inspected by domestic commercial users of amosite asbestos covered by this specification, and in any event, by not less than three such users. Acceptance shall be based upon written statements from the majority (normally two out of three) of these users giving a breakdown of fiber lengths and averages (as required by Section II.A.) and the percentage of moisture and foreign matter specified in Sections II. B and II. C of this specification.

In lieu of having samples tested by domestic commercial users, the Government may, at its option, accept amosite asbestos tested by competent commercial testing laboratories of its selection provided this method of procedure adequately protects the interests of the Government. Such laboratories shall have the necessary facilities to test the amosite asbestos in accordance with the requirements of this specification.

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P-4-R5 COMEX

December 5, 1963
(Supersedes issue of
June 10, 1963)

Superseded

NATIONAL STOCKPILE
PURCHASE SPECIFICATION

ASBESTOS-AMOSITE

1. DESCRIPTION

This specification covers certain commercial grades of amosite asbestos suitable for use in making woven insulating felt, heat insulation (pipe covering, block and segments), and marine insulating board.

2. QUALITY REQUIREMENTS

a. Each lot of amosite purchased under this specification shall be equal to or better than that mined in the Transvaal region in the Union of South Africa and shall conform to requirements for the standard grade regularly used commercially as follows:

Grade or Symbol	Average Length of Fibers to be Within these Ranges	Designation
D11 or DX	1 - 2 inches	Medium-Long
MD or M	3/4 - 2 inches	Medium
M3 or W3	1/2 - 2 inches	Medium-Short

The average length of fibers for any of the grades in the tabulation above represents a weighted average obtained by manual separation of the fibers in a sample into groups or lots of approximately equal length, weighing each group in grams and multiplying grams by length in inches to give a number called "gram-inches." The total sum of the various gram-inches in a sample divided by the sum of the various grams (total weight) in that sample will be the weighted average length of that sample in inches.

b. The amosite shall not contain more than two percent by weight of moisture.

c. The amosite shall not contain metal or other objectionable matter, and shall not contain more than five percent by weight of other foreign matter. Foreign matter consists of all material other than amosite fiber.

3. PACKAGING, MARKING, AND SHIPPING

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a. Packaging

The amosite shall be packed in new bags equal to 12 ounce burlap Type I, No. B-6; or 8 ounce osnaburg Type II, No. C-52 in Federal Specification PPP-B-35: Bags; Textile, Shipping, Burlap, Cotton and Waterproof Laminated. The amosite shall be packed in bags with the seam side out to prevent contamination of the asbestos fiber with material from the bag. Each bag shall contain not more than 150 pounds of amosite.

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All bags comprising any lot shall be of the same nominal size and shape.

b. Marking:

Each bag of amosite shall be permanently and legibly marked in English. The marking shall include the following:

Name of Product - Amosite
Name of Supplier
Country of Origin
Name and Location (Including State or Province) of Mine
Grade
Gross and Net Weights
Government Contract Number
Lot Number

The marking shall be stenciled or printed in letters not less than 1-inch high. Additionally, a distinctive color marking shall be applied to both ends of all bags in each contract lot with non-water base material, which shall not penetrate to the amosite fiber.

The bags shall not carry a security classification or any marking, other than the contract number, indicating National Stockpile ownership.

c. Shipping:

All amosite shall be loaded, braced, and blocked in carriers' conveyances, in compliance with applicable rules and regulations set forth in carriers' classifications and other tariffs. For rail shipments, the applicable rules and regulations published by the Association of American Railroads (AAR) in Pamphlet No. 3 and Circular No. 42-B (Latest Revisions) shall be followed.

Appropriate identifying documents shall accompany each shipment and shall include the number of bags.

4. SAMPLING, INSPECTION, AND TESTING

Each lot of amosite asbestos shall be subject to sampling, inspection and testing by the purchaser or his designees.

Manual separation and actual measurement of the fibers as received from the supplier shall be used to determine compliance with Section 2-a.

Five pound samples shall be inspected by domestic commercial users of amosite covered by this specification, and in any event, by not less than three such [illegible]. Acceptance shall be based upon written statements from the majority (i.e., two out of three) of these users giving a breakdown of fiber lengths and averages (as required by Section 2-a) and the percentage of moisture and foreign matter specified in Sections 2-b and 2-c of this specification. 492

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NOTE: THIS
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In lieu of having samples tested by domestic commercial users, the Government may at its option accept amosite tested by competent commercial testing laboratories of its selection provided this method of procedure adequately protects the interests of the Government. Such laboratories shall have the necessary facilities to test the amosite in accordance with the requirements of this specification.

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P-4-83

January 23, 1962
(Supersedes issue
of August 4, 1959

NATIONAL STOCKPILE PURCHASE SPECIFICATION

ASBESTOS-AMOSITE

NOTE: NOT CO... FILES

1. DESCRIPTION

This specification covers certain commercial grades of amosite asbestos suitable for use in making woven insulating felt, heat insulation (pipe covering, block and segments), and marine insulating board.

2. QUALITY REQUIREMENTS

a. Each lot of amosite purchased under this specification shall be equal to or better than that mined in the Transvaal region in the Union of South Africa and shall conform to requirements for the standard grade regularly used commercially as follows:

Grade or Symbol	Average Length of Fibers to be Within these Ranges	Designation
D11 or DX	1 - 2 inches	Medium-Long
MD or M	3/4 - 2 inches	Medium
K3 or W3	1/2 - 2 inches	Medium-Short

The average length of fibers for any of the grades in the tabulation above represents a weighted average obtained by manual separation of the fibers in a sample into groups or lots of approximately equal length, weighing each group in grams and multiplying grams by length in inches to give a number called "gram-inches." The total sum of the various gram-inches in a sample divided by the sum of the various grams (total weight) in that sample will be the weighted average length of that sample in inches.

In no event shall there be more than 15 percent by weight of each lot shorter than the length shown below for each grade or symbol:

Grade	Length in Inches
D11 or DX	3/4
MD or M	1/2
K3 or W3	1/4

b. The amosite shall not contain more than two percent by weight of moisture.

c. The amosite shall not contain metal or other objectionable matter, and shall not contain more than five percent by weight of other foreign matter. Foreign matter consists of all material other than amosite fiber.

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3. PACKAGING, MARKING, AND SHIPPING

a. Packaging:

The amosite shall be packed in new bags equal to 12 ounce burlap Type I, No. B-6; or 8 ounce osnaburg Type II, No. C-52 in Federal Specification PPP-B-35: Bags; Textile, Shipping, Burlap, Cotton and Waterproof Laminated. Each bag shall contain not more than 150 pounds of amosite.

All bags comprising any lot shall be of the same nominal size and shape.

b. Marking:

Each bag of amosite shall be permanently and legibly marked in English. The marking shall include the following:

Name of Product - Amosite
Name of Supplier
Country of Origin
Name and Location (Including State or Province) of Mine
Grade
Gross and Net Weights
Government Contract Number
Lot Number and Bag Serial Number (e.g. 1/20, 2/20, etc.)

The marking may be stenciled on osnaburg bags in letters not less than 1-inch high. Otherwise, the marking shall be on linen tags and two tags shall be attached to each bag, one at each end. The bags shall not carry a security classification or any marking, other than the contract number, indicating National Stockpile ownership.

c. Shipping:

All amosite shall be loaded, braced, and blocked in carriers' conveyances, in compliance with applicable rules and regulations set forth in carriers' classifications and other tariffs. For rail shipments, the applicable rules and regulations published by the Association of American Railroads (AAR) in Pamphlet No. 3 and Circular No. 42-B (latest revisions) shall be observed.

Appropriate identifying documents shall accompany each shipment and shall include the number of bags.

4. SAMPLING, INSPECTION, AND TESTING

Each lot of amosite asbestos shall be subject to sampling, inspection, and testing by the purchaser or his designees.

Experience has established that the most reliable method of determining the fiber length of amosite asbestos is the manual separation and actual measurement of the fibers as received from the supplier. This method shall be used to determine compliance with Section 2-a.

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Five pound samples shall be inspected by domestic commercial users of amosite covered by this specification, and in any event, by not less than three such users. Acceptance shall be based upon written statements from the majority (normally two out of three) of these users giving a breakdown of fiber lengths and averages (as required by Section 2-a) and the percentage of moisture and foreign matter specified in Sections 2-b and 2-c of this specification.

In lieu of having samples tested by domestic commercial users, the Government may at its option accept amosite tested by competent commercial testing laboratories of its selection provided this method of procedure adequately protects the interests of the Government. Such laboratories shall have the necessary facilities to test the amosite in accordance with the requirements of this specification.

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P-4-R2

August 4, 1959
(Supersedes issue of
November 1, 1954)

NATIONAL STOCKPILE PURCHASE SPECIFICATION

ASBESTOS-AMOSITE

NOTE: THIS
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1. DESCRIPTION -

This specification covers certain commercial grades of amosite asbest s suitable for use in making woven insulating felt, heat insulation (pipe covering, block and segments), and marine insulating board.

2. QUALITY REQUIREMENTS

a. Each lot of amosite purchased under this specification shall be equal or equivalent to that mined in the Transvaal region in the Union of South Africa and shall conform to requirements for the standard commercial grades as follows:

Grade or Symbol	Approximate Range of Average Fiber Lengths, Inches	Designation
D3	2 - 6	Long
DII	1 - 2	Medium, Long
DX	1 - 2	Medium, Long
MD	3/4 - 2	Medium
M	3/4 - 2	Medium
K3	1/2 - 2	Medium, Short
W3	1/2 - 2	Medium, Short

Grades other than D3, although shorter in staple length, shall be equal in quality to the longer grade (Grade D3) specified herein.

b. Each lot of amosite shall contain not more than 5 percent by weight of foreign matter. Foreign matter consists of all material other than amosite fiber.

c. Each lot of amosite shall contain not more than 2 percent by weight of moisture.

3. PACKAGING AND MARKING

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a. Packaging:

The amosite shall be packed in new bags equal to 12 ounce burlap Type I, No. B-6; or 8 ounce osnaburg Type II, No. C-52 in Federal

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National Stockpile Special Instructions: Asbestos, Amosite (1971)
ACL Doc 10935 · Page 23 of 26
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Specification PPP-B-35; Bags: Textile, Shipping, Burlap, Cotton and Waterproof Laminated. Each bag shall contain not more than 150 pounds of amosite.

All bags comprising any lot shall be of the same nominal size and shape.

b. Marking:

Each bag of amosite shall be permanently and legibly marked and shall include the name of the product, name and location of the mine, type, grade, gross and net weights, and Government contract number. The marking may be stencilled on osnaburg bags in letters not less than 1-inch high. Otherwise, the marking shall be on linen tags and two tags shall be attached to each bag, one at each end. The bags shall not carry a security classification or any marking, other than the contract number, indicating National Stockpile ownership.

Appropriate identifying documents shall accompany each shipment and shall include the number of bags.

4. SAMPLING, INSPECTION, AND TESTING

a. Five-pound samples shall be inspected by domestic commercial users whose combined manufacturing requirements represent at least 50 percent of the total United States consumption of the grades of asbestos covered by this specification, and, in any event, by not less than three such users. Acceptance shall be based upon written statements from the majority (normally two out of three) of these users that the lot of asbestos conforms to the applicable requirements of Section 2 of this specification.

b. Amosite containing foreign matter in excess of 5 percent, or moisture in excess of 2 percent, may, at the option of the Government be accepted provided the other requirements of this specification are met; however, payment shall b based on the amount of amosite after the excess foreign matter and/or moisture are deducted.

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P-4-R

September 14, 1953

(Supersedes issue of November 13, 1951)

NATIONAL STOCKPILE MATERIAL PURCHASE SPECIFICATIONS

ASBESTOS - AMOSITE

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1. DESCRIPTION

These specifications cover certain commercial grades of amosite asbestos.

2. QUALITY REQUIREMENTS

All amosite purchased under these specifications shall be equal to that mined in the Transvaal region in the Union of South Africa and shall conform to the standard commercial Grade D-3, Grade DX, or Grade D11. Grade DX and Grade D11 amosite, although shorter in staple length, shall be equal in quality to that of the longer grade (Grade D-3) specified herein.

3. PACKAGING AND MARKING

a. Packaging:

The amosite shall be packed in new burlap or osnaburg bags or equal, with not more than 150 pounds packed in each bag. The bag shall be so constructed as to insure acceptance by common carrier at the lowest rate to the point of delivery.

b. Marking:

Each bag shall be permanently and legibly marked and shall include the name of the mine, location, type, grade, gross and net weights, and Government contract number.

All bags comprising any lot shall be of the same nominal size and shape.

4. INSPECTION

Five-pound samples shall be inspected by domestic commercial users whose combined manufacturing requirements represent at least 50 percent of the total United States consumption of the grades of asbestos covered by these specifications, and, in any event, by not less than three such users. Acceptance shall be based upon written statements from the majority (normally two out of three) of these users that the lot of asbestos conforms to the applicable requirements of Section 2.

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NATIONAL STOCKPILE SPECIFICATION P-4
27 August 1946
(Supersedes issue of
17 June 1946)

GENERAL SERVICES ADMINISTRATION
EMERGENCY PROCUREMENT SERVICE
WASHINGTON 25, D. C.

MATERIAL PURCHASE SPECIFICATION

ASBESTOS - AMOSITE

NOT FROM OUR FILES

1. DESCRIPTION

This specification covers certain commercial grades of amosite asbestos.

2. QUALITY REQUIREMENTS

All material purchased under this specification shall be equal to that mined in the Transvaal region in the Union of South Africa and shall conform to the standard commercial Grade B-1, Grade B-3, Grade D-3, or Grade 3/DM-1.

3. PACKAGING

Material shall be packed in bags of any type or size customary to the trade and suitable for the protection of the material in transit.

4. INSPECTION

Material will be accepted under this specification based upon inspection of samples by a sufficient number of commercial users of raw asbestos to represent an aggregate of not less than 50 percent of the then current U. S. use of the specified Grades, and in any event by not less than three users, and upon the receipt by the purchaser of written statements from such users to the effect that the subject lot of material is considered as conforming to the requirements of paragraph 2 hereof.

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