

**JAN-G-479****17 JULY 1947**

**JOINT ARMY-NAVY SPECIFICATION**  
**GLASS, GROUND (For Ordnance Use)**

This specification was approved by the War Department and the Navy Department for use of procurement services of the Army and the Navy and supersedes the following specification:

U. S. Army  
 50-11-23A  
 12 June 1933

Navy Department  
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**A. APPLICABLE SPECIFICATIONS AND OTHER PUBLICATION**

A-1. *Specifications.*—The following specifications of the issue in effect on date of invitation for bids, form a part of this specification:

**U. S. ARMY SPECIFICATIONS**

- 50-0-1—General Specification for Ammunition  
 except Small Arms Ammunition.<sup>1</sup>  
 100-2 —Standard Specification for Marking  
 Shipments by Contractors.<sup>1</sup>

**NAVY DEPARTMENT SPECIFICATION**  
**General Specifications for Inspection of Material.<sup>2</sup>**

**FEDERAL SPECIFICATION**

RR-S-366—Sieves, Standard, Testing.

A-2. *Other publication.*—The following publication, of the issue in effect on the date of invitation for bids, forms a part of this specification:

**BUREAU OF SUPPLIES AND ACCOUNTS PUBLICATION**  
**Navy Shipment Marking Handbook.<sup>2</sup>**

**B. GRADE AND CLASSES**

B-1. This specification covers one grade of ground glass, furnished in five classes, A, B, C, D and E according to granulation, as specified in the contract or order. (See par. E-2.)

**C. MATERIAL AND WORKMANSHIP**

C-1. *Material.*—The material used to produce the ground glass shall be a soft, white, soda-lime glass.

<sup>1</sup>Applicable only to Army purchases.

<sup>2</sup>Applicable only to Navy purchases.

C-2. *Workmanship*.—The glass shall be ground with French burrstones or other mills giving to the particle the shape and edge characteristic of burrstone grinding.

#### D. GENERAL REQUIREMENTS

D-1. See section E.

#### E. DETAIL REQUIREMENTS

E-1. *Foreign matter*.—The material shall be free from foreign matter.

E-2. *Particle shape*.—The fracture of the particles shall be conchoidal and there shall be no long needles or round particles due to rumbling.

E-3. *Granulation*.—Ground glass shall conform to the granulation requirements shown in table I using U. S. Standard sieves conforming to Federal Specification RR-S-366.

Table I—Granulation requirements.

	Class A	Class B	Class C	Class D	Class E
	Percent (min.)	Percent (min.)	Percent (min.)	Percent (min.)	Percent (min.)
Through sieve No. 60	100	--	--	--	--
Through sieve No. 100	--	100	--	--	--
Through sieve No. 140	--	--	100	90	--
Through sieve No. 170	--	--	--	--	90
Retained on sieve No. 100	99	--	--	--	--
Retained on sieve No. 170	--	--	--	75	--
Retained on sieve No. 200	--	99	99	--	75

#### F. METHODS OF SAMPLING, INSPECTION, AND TESTS

F-1. *Size of lot*.—Unless otherwise specified a lot shall consist of not more than 100 pounds of material of one class.

F-2. *Sampling*.—Select at least 10 percent but not more than 10 of the containers comprising the lot. By means of a scoop, remove from each selected container sufficient of the material to form a sample of approximately 2 ounces. Mix these samples thoroughly and quarter until a composite sample of approximately 8 ounces is obtained. Place the composite sample in a rubber-stoppered bottle and label to show the name of the material, class, manufacturer, plant, contract or order number, and number of pounds in the lot. All acceptance tests shall be made on the composite sample representative of the lot.

F-3. *Inspection*.—

F-3a. *Army*.—Inspection shall be made in accordance with the requirements of U. S. Army Specification 50-0-1, and shall be at the point of delivery unless otherwise specified in the contract or order.

F-3b. *Navy*.—Unless otherwise specified in the contract or order, inspection shall be made at the point of delivery.

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**F-4. Tests.**—The laboratory tests shall be made in accordance with the following paragraphs. For Navy purchases, tests shall be made at a Government laboratory unless otherwise specified in the contract or order.

**F-4a. Foreign matter.**—Determine by microscopic examination using a low power.

**F-4b. Particle shape.**—Determine by microscopic examination.

**F-4c. Granulation.**—Place an accurately weighed portion of approximately 100 gm. of the sample on the specified nest of sieves properly superimposed and assembled with a bottom pan. Cover and shake 5 minutes by hand, or mechanically with a shaker geared to produce  $300 \pm 10$  gyrations and  $180 \pm 10$  taps of the striker per minute. Weigh the portions retained or passed by the various sieves and calculate the results to a percentage basis as specified in paragraph E-3.

#### **G. PACKAGING, PACKING, AND MARKING FOR SHIPMENT**

**G-1. Packing.**—Unless otherwise specified ground glass shall be packed in bags, barrels, or boxes so constructed as to insure acceptance by common or other carrier for safe transportation at the lowest rate to the point of delivery.

**G-2. Marking.**—In addition to any special marking required by the contract or order, shipments for the Army shall be marked in accordance with the requirements of U. S. Army Specification 100-2; for the Navy, in accordance with the requirements of the Navy Shipment Marking Handbook.

#### **M. NOTES**

**M-1. Use.**—The material covered by this specification is intended for use as an ingredient in primer compositions.

**M-2. Requests, requisitions, schedules, and contracts or orders** should contain the following:

- (a) Title, number, and date of the specification.
- (b) Class of material required. (See par. B-1.)

**M-3. Copies of Joint Army-Navy specifications and Federal specifications** (required for Army purchases) and U. S. Army specifications may be obtained as indicated in the "Index of United States Army, Joint Army-Navy, and Federal Specifications Used by the War Department." Copies of this index may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. Agencies within the War Department will obtain copies of Joint Army-Navy, U. S. Army, and Federal specifications through established War Department channels. Both the title and identifying symbol number should be stipulated when requesting copies of specifications.

**M-4. Copies of Joint Army-Navy specifications and Federal specifications** (required for Navy purchases), Navy Department specifications, and the Navy Shipment Marking Handbook may be obtained 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,

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Naval Supply Depot, Bayonne, N. J. Both the title and identifying symbol number should be stipulated when requesting copies of specifications.

H-3. Copies of this Joint Army-Navy specification (required for Army purchases) may be obtained from the Office, Chief of Ordnance, War Department, Washington 25, D. C.

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.

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