

MIL-B-85252(AS)
13 June 1981

MILITARY SPECIFICATION
BALLONET, CARTRIDGE ACTIVATED
(MXU-695/B)

This specification is approved for use by the Naval Air Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE.

1.1 Scope. This specification establishes the requirements for manufacture and acceptance of the MXU-695/B cartridge activated ballonet, critical item, referred to herein as the ballonet.

2. APPLICABLE DOCUMENTS:

2.1 Issues of documents. The following documents of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

SPECIFICATIONS

MILITARY

| | |
|-------------|--|
| MIL-S-487 | Sulfur, Ground (for use in Ammunition). |
| MIL-W-52574 | Welding Process and Welding Procedure Requirements for Manufacture of Equipment Utilizing Steel. |
| MIL-B-85251 | Bomb, Binary Chemical, Empty, BLU-80/B. |
| MIL-C-85256 | Cartridge, Impulse, CCU-13/B. |

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commanding Officer, Naval Air Engineering Center, Engineering Specifications and Standards Department (ESSD), Code 93, Lakehurst, NJ 08733, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document, or by letter.

FSC 1377

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STANDARDS

MILITARY

| | |
|---------------|--|
| MIL-STD-105 | Sampling Procedures and Tables for Inspection by Attributes. |
| MIL-STD-109 | Quality Assurance Terms and Definitions. |
| MIL-STD-129 | Marking for Shipping and Storage. |
| MIL-STD-810 | Environmental Test Methods. |
| MIL-STD-45662 | Calibration System Requirements. |

DRAWINGS

Naval Air Systems Command
(Code Ident 30003)

| | |
|-------------|---|
| DL X4900552 | Ballonet, MXU-695/B. |
| DL X4900811 | Marking, Shipping, and Storage for MXU-695/B. |
| SA 2875561 | Ballonet Test Fixture. |
| X4900623 | Tube, Injector. |

(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 or request for proposal shall apply.

DEPARTMENT OF TRANSPORTATION

Code of Federal Regulations

| | |
|----------------|-----------------|
| 49 CFR 171-178 | Transportation. |
|----------------|-----------------|

(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.)

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AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

| | |
|--------------|--|
| ASTM-E498-73 | Standard Methods of Testing for Leaks Using the Mass Spectrometer Leak Detector or Residual Gas Analyzer in the Tracer Probe Mode. |
| ASTM-E499-73 | Standard Methods of Testing for Leaks Using the Mass Spectrometer Leak Detector in the Detector Probe Mode. |
| ASTM-F78-71 | Standard Method for Calibration of Helium Leak Detectors by use of Secondary Standards. |

(Applications for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

3. REQUIREMENTS.

3.1 Item description. The MXU-695/B ballonet consists of a welded tube assembly and a CCU-13/B impulse cartridge. The tube contains three equally spaced longitudinal depressions each approximately 50 inches long. The depressions are packed with lay-flat plastic tubes filled with a mixture of sulfur and silicon dioxide. The CCU-13/B impulse cartridge contains the propellant and ignitor for expanding the depressions from the tubing during operation of the weapon.

3.2 Characteristics.3.2.1 Performance.

3.2.1.1 Solids load. There shall be no visual evidence of white and yellow separation areas or lumps, and the angle of repose shall be not greater than 45 degrees (deg).

3.2.1.2 Lay-flat tubing seal. There shall be no evidence of leaks from the lay-flat tubing surface or adhesive interface (see 4.4.2).

3.2.1.3 Adhesive system peel strength. The peel strength shall be not less than 75 ounces (see 4.4.3).

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3.2.1.4 Tube expansion. When the CCU-13/B impulse cartridge, in accordance with MIL-C-85256(AS), is activated, the ballonet tube shall expand to fill the inside of volume of the injector tube basket. The expansion shall cause the material contained on the ballonet to be injected through the basket due to the rupture of the scored segments of the injector tube, Drawing X4900623. The ballonet shall not exhibit leakage in excess of 10^{-4} atmospheres cubic centimeters per second at one atmosphere differential pressure and 25 ± 2 degrees Celsius ($^{\circ}\text{C}$).

3.2.2 Environmental. The ballonet performance shall not be degraded below that specified in 3.2.1, nor shall there be loose or damaged parts on the ballonet, separation of the lay-flat tubing from the adhesive, separation of the adhesive from the ballonet tube, holes or cracks in the lay-flat tubing, or evidence of blend separations as shown by distinct white and yellow areas, after exposure to the following environments. Also, the moisture and acidity contents of the blend shall be not greater than 0.1650 and 0.0023 percent by weight, respectively. The change of angle of repose between initial and final measurements at 50 percent relative humidity shall be no greater than ± 2 deg.

3.2.2.1 High temperature. Exposure to a high temperature of 74°C for 48 consecutive hours (see 4.4.5).

3.2.2.2 Low temperature. Exposure to a low temperature of -48°C for 24 consecutive hours (see 4.4.6).

3.2.2.3 Vibration. Exposure to the vibration schedule of Figure 1 in each of the three mutually perpendicular axes at a temperature of -40°C (see 4.4.7).

3.2.2.4 Shock. Exposure to half sine wave impact shocks in each of three mutually perpendicular axes having a peak amplitude of 15 gravity units (g) and a total duration of 11 milliseconds (ms) (see 4.4.8).

3.2.2.5 Humidity. Exposure to a relative humidity of up to 95 percent (see 4.4.9).

3.3 Design and construction.

3.3.1 Production drawings. The ballonet shall be fabricated and assembled in accordance with the drawings, parts list, and other documents listed on DL X4900552.

3.3.2 Standards of manufacture. All materials, processes, and parts used in the manufacture of the ballonet shall be of high quality, functionally suitable for the application, and shall conform strictly to the requirements specified in applicable documents and drawings referenced herein.

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3.3.2.1 Certification. When specified in the contract or purchase order, the contractor shall include written certification to the procuring activity (see 6.2.2), accompanied by objective quality evidence as defined in MIL-STD-109, that the materials, processes, and parts used in the assembly meet the applicable requirements for each item. Further, the certification shall attest that the following ballonet subcomponents installed in each ballonet meet the requirements specified:

| <u>Subcomponent</u> | <u>Requirement</u> |
|----------------------------|--------------------|
| Impulse Cartridge/CCU-13/B | MIL-C-85256 |

3.3.2.2 Special working environments. Any special working environments for the manufacture of ballonets shall be as specified in MIL-B-85251.

3.3.2.3 Manufacturing processes and procedures. When specified in the contract or purchase order, the contractor shall prepare, in his own format, written procedures for welding performed in the manufacture of the ballonet. The procedures shall be in accordance with MIL-W-52574. The procedures shall also reflect the requirements for welding specified on the applicable drawings as listed on DL X4900552. Copies of such procedures, together with referenced documents, shall be made available to the procuring activity in the manner specified in the contract or purchase order (see 6.2.2) for technical concurrence.

3.4 First article.

3.4.1 Preproduction sample. Unless otherwise specified in the contract or purchase order (see 6.2.1), the number of sample units to be submitted for preproduction testing shall be 10 ballonets, and one waterproof container of excess blend (10-pound minimum) prepared for each lot of sulfur used in the 10 sample ballonet units. The preproduction sample shall be manufactured using the same methods, materials, processes, and procedures proposed for production. Any production prior to acceptance of the preproduction sample shall be at the risk of the contractor.

3.4.2 Preproduction verification. At the discretion of the procuring activity (see 6.2.1), preproduction verification shall be repeated under any of the following conditions:

- a. The manufacturer has modified his product (such as a change of raw materials, the process, production procedures, or methods). It shall be the responsibility of the contractor to notify the procuring activity prior to the incorporation of any such changes, and to provide quantitative evidence of the effect of such changes on the performance or characteristics of the product. Requirements for such tests shall be based on an evaluation of the evidence supplied.

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- b. Where there is evidence that the quality of the product has not been maintained, this evidence may be in the form of accumulated failure reports of the product, of system failures attributable to the product, or failure of the product to pass any of the tests for production lot acceptance that may be conducted by or for the procuring activity.
- c. Applicable documents have been amended or revised sufficiently so that continued validity of the previous preproduction testing is questionable.
- d. The manufacturer has not produced ballonets to this specification for a period of 12 months or longer.
- e. The manufacturer has changed the location at which ballonets are produced.

3.5 Documentation. When specified in the contract or purchase order (see 6.2.1), the following documents shall be prepared for the procuring activity:

- a. Certification (see 3.3.2.1, 4.1.2.3, and 4.2.4).
- b. Inspection reports (see 4.1.2.3 and 4.2.4).
- c. Manufacturing documentation (see 3.3.2.3).

3.6 Workmanship. The device shall be fabricated in a manner that will ensure compliance with all requirements of this specification and the appropriate assembly drawings listed in Section 2. There shall be no evidence of wrinkles, kinks, creases, or scratches in the lay-flat tubing. Wrinkles are allowed at the tapered end sections. There shall be no evidence of separation of the lay-flat tubing from the ballonet tube.

4. QUALITY ASSURANCE PROVISIONS.

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order (see 6.2.1), the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. 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.

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4.1.1 Classification of inspections. The inspections of the ballonet shall be classified as follows:

- a. Preproduction tests (see 4.1.2).
- b. Quality conformance inspections (see 4.2).

4.1.2 Preproduction inspection. The preproduction sample of 3.4.1 shall be subjected to the inspections specified in Table I in the order shown.

4.1.2.1 Acceptance/rejection criteria. Failure of the materials to meet any of the requirements shall be cause for rejection of the lot of material and all ballonets loaded with that lot of material. Any failure attributable to the ballonets shall cause rejection of the entire preproduction sample and preproduction lot.

4.1.2.2 Combined testing. Preproduction inspections of the ballonet and bomb, in accordance with MIL-B-85251, may be conducted concurrently upon approval of the procuring activity (see 6.2.1).

TABLE I. Preproduction inspection.

| Examination or test | Requirement | Test |
|---------------------------------|----------------|--------|
| Group I | | |
| Visual examination | 3.3.1, 3.6 | 4.4.1 |
| Lay-flat tube seal | 3.2.1.2 | 4.4.2 |
| Adhesive system peel strength | 3.2.1.3 | 4.4.3 |
| Group II | | |
| High temperature | 3.2.2, 3.2.2.1 | 4.4.5 |
| Low temperature | 3.2.2, 3.2.2.2 | 4.4.6 |
| Vibration | 3.2.2, 3.2.2.3 | 4.4.7 |
| Shock | 3.2.2, 3.2.2.4 | 4.4.8 |
| Humidity | 3.2.2, 3.2.2.5 | 4.4.9 |
| Group III | | |
| Adhesive system peel strength | 3.2.1.3 | 4.4.3 |
| Lay-flat tube seal | 3.2.1.2 | 4.4.2 |
| Functional | 3.2.1.4 | 4.4.11 |
| Group IV (containers of excess) | | |
| Solids load | 3.2.1.1 | 4.4.4 |

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4.1.2.3 Preproduction inspection report. When specified in the contract or purchase order (see 6.2.2), results of the preproduction inspections shall be prepared for the procuring activity. The report shall contain the following information accompanied by a certification which attests that the information provided is correct and applicable to the product being submitted:

- a. A statement that the preproduction sample complies with all quality assurance provisions of this specification for the ballonet specified in the contract or purchase order.
- b. Number of units of product inspected.
- c. Results obtained for all inspections performed.
- d. Purchase descriptions or contract number and date, together with an identification and date of changes.
- e. Certificates of compliance of all material procured directly by the contractor.
- f. Date submitted.

The certification shall be signed by a responsible agent of the certifying organization. The certification shall be substantiated by evidence of the agent's authority to bind his principal. Substantiation of the agent's authority will not be required with subsequent certification unless, during the course of the contract, this authority is vested in another agent of the certifying organization.

4.2 Quality conformance inspection. Quality conformance inspections shall be performed on each lot of ballonets offered for acceptance. Tests shall be as specified in Table II in the order shown.

◦ TABLE II. Quality conformance inspections.

| Examination or test | Requirement | Test |
|--|-------------|--------|
| Group I (100%) | | |
| Visual examination | 3.3.1, 3.6 | 4.4.1 |
| Lay-flat tube seal | 3.2.1.2 | 4.4.2 |
| Adhesive system peel strength | 3.2.1.3 | 4.4.3 |
| Group II (Sample) | | |
| Functional | 3.2.1.4 | 4.4.11 |
| Group III (Containers of excess blend) | | |
| Solids load | 3.2.1.1 | 4.4.4 |

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4.2.1 Inspection lot. Unless otherwise specified herein, inspection lot definition shall be in accordance with MIL-STD-105. An inspection lot shall be formed from ballonets which have passed Group I inspections. If ballonets are tested in bombs in accordance with MIL-B-85251, (see 6.2.1), the number of ballonets in the inspection lot shall be the same as the number of bombs in the corresponding bomb lot. If ballonets are not tested in bombs, an inspection lot shall be ballonets offered for acceptance at one time.

4.2.2 Sampling. Group I tests shall be performed on 100 percent of the ballonets. Sample size for Group II tests shall be the number required for bomb acceptance testing in accordance with MIL-B-85251 if ballonet testing is conducted in conjunction with bomb testing. If testing of ballonets is not in conjunction with bomb testing, Group II tests shall be performed on a sample of three ballonets randomly selected from each 100 ballonets (or fraction thereof) in the inspection lot. Five pounds of excess sulfur/silicon dioxide blend shall be drawn from the blend made from each lot of sulfur used in the containers and shall be labeled as to its identity and the ballonet lot of which it is representative. Each container of excess blend shall be subjected to Group III tests.

4.2.3 Acceptance/rejection criteria. Failure of any ballonet to pass Group I inspections shall cause its removal from the lot. Failure of one or more ballonets to pass Group II inspections shall cause rejection of the lot represented. Failure of the materials used for Group III inspections to meet the applicable requirements shall cause rejection of the lot of material and all ballonets loaded with that lot of material. When bomb and ballonet quality conformance inspections are conducted concurrently, the acceptance criteria established herein and in accordance with MIL-B-85251 shall be met in order for the lot of bombs and lot of ballonets represented to be acceptable.

4.2.4 Quality conformance inspection report. When specified in the contract or purchase order (see 6.2.2), results of the quality conformance inspection shall be prepared with each lot. Reports shall contain the following information accompanied by a certification which attests that the information provided is correct and applicable to the product being submitted:

- a. A statement that the lot complies with all quality assurance provisions of this specification for the ballonet specified in the contract or purchase order.
- b. Number of units of product inspected.
- c. Results obtained for all inspections performed.

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- d. Purchase descriptions or contract number and date, together with an identification and date of changes.
- e. Certificates of compliance of all material procured directly by the contractor.
- f. Number of items in the lot.
- g. Date submitted.

The certification shall be signed by a responsible agent of the certifying organization. The initial certification shall be substantiated by evidence of the agent's authority to bind his principal. Substantiation of the agent's authority will not be required with subsequent certifications unless, during the course of the contract, this authority is vested in another agent of the certifying organization.

4.3 Test equipment and conditions:

4.3.1 Standard test equipment. The contractor shall provide and maintain an adequate system of inspection and test equipment necessary to ensure that parts and products will meet the contract or purchase order, specification, and drawing requirements at the rate of delivery specified in the contract or purchase order. The calibration of measuring and test equipment shall conform to MIL-STD-45662. Test equipment, including associated calibration programs, and operation and maintenance procedures, are subject to disapproval by the procuring activity. When special test equipment and circuits are devised or commercially available equipment is employed, all test equipment circuits and methods are subject to disapproval by the procuring activity. Unless otherwise specified herein, the magnitude of any error introduced by test equipment shall be not greater than 10 percent of the tolerance of the requirement being measured.

4.3.2 Test conditions. Unless otherwise specified herein, all tests shall be conducted at the test area at ambient temperature and relative humidity. Where special conditions of tests are specified, equipment employed shall adequately provide specified conditions; and all monitoring and measurement devices shall conform to the requirements of 4.3.1. When special conditions of tests are not imposed, commercially available direct-measurement equipment shall be employed provided they conform to the requirements of 4.3.1.

4.4 Test methods.

4.4.1 Visual examination. The ballonet shall be visually and mechanically examined to verify conformance with 3.3.1 and 3.6.

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4.4.2 Lay-flat tubing seal. The lay-flat tubing seal shall be examined for leaks by passing a template over each plastic tube and visually observing for evidence of puffs of sulfur blend through the end closures or through holes ahead of the template: To be acceptable, the requirements of 3.2.1.2 shall be met.

4.4.3 Adhesive system peel strength. The peel strength of the adhesive system shall be determined as follows:

- a. Pull each loaded plastic tube of one end of one cavity away from the ballonet tube until the full 1-inch width of all three strips of tape are exposed.
- b. Attach a C-clamp and force gage to the end of each plastic tube in the cavity and pull perpendicular to the ballonet until peeling occurs or a load of 75 ounces is obtained, whichever occurs first.
- c. If unit has not failed, reseal the ends of the plastic tubes to the ballonet and mark to identify the ends tested.

4.4.4 Solids load. The blend shall be examined for evidence of lumps or white and yellow separation areas. The angle of repose shall be measured as follows, using one cup of blend:

- a. Maintain the relative humidity at less than 50 percent.
- b. Place the cup of blend into the clean transparent plastic or glass container shown in Figure 2 and allow it to drain onto a rigid clean flat white paper surface.
- c. When the flow has stopped, measure the angle of repose using an adjustable angle protractor or similar device. Do not touch the mound with the protractor. To be acceptable, the requirements of 3.2.1.1 shall be met.

4.4.5 High temperature. The loaded and packaged ballonet shall be subjected to the high temperature test of MIL-STD-810, Method 501.1, Procedure I, except the temperature shall be 74°C. Steps 4 and 5 shall be omitted. Post-test examination shall be as specified in 4.4.10.

4.4.6 Low temperature. The loaded and packaged ballonet shall be subjected to the low temperature test of MIL-STD-810, Method 502.1, Procedure I, except the temperature shall be -48°C. Steps 4 and 5 shall be omitted. Post-test examination shall be as specified in 4.4.10.

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4.4.7 Vibration. Testing shall be conducted in accordance with MIL-STD-810, Method 514.2. Testing shall be conducted with the ballonet inserted into a bomb, in accordance with MIL-B-85251. The test item shall be vibrated in each of three mutually perpendicular axes for a period of 2 hours minimum for each axis at a temperature of $-40 \pm 3^{\circ}\text{C}$. The vibration test profile shall be in accordance with Figure 1. The tolerance on vibration test levels shall be in accordance with MIL-STD-810, Method 514.2, paragraph 4.5.2. Post-test examination shall be as specified in 4.4.10.

4.4.8 Mechanical shock. The loaded and packaged ballonet shall be subjected to mechanical shock testing performed in accordance with MIL-STD-810, Method 516.2. Testing shall be conducted by applying three shocks in each direction (18 shocks total) through three mutually perpendicular principle axes at a temperature of -40°C , as follows:

- a. The shock pulse signature shall be a half sine pulse, 15 g's and 11 ms duration. The shock pulse tolerance limits shall be in accordance with MIL-STD-810, Method 516.2, Figure 516.2-2.
- b. Before applying mechanical shocks, the ballonet shall be temperature conditioned at $-40 \pm 3^{\circ}\text{C}$ for not less than 4 hours or more than 12 hours. If the ballonet must be removed from the chamber to apply the required shocks, the elapsed time between removal from the chamber and the start of application of any shock along any axis shall not exceed 3 minutes. If the ballonet is transferred from the temperature conditioning chamber to a temperature conditioned, insulated box which is at the same temperature, the elapsed time between removal from the chamber and start of application of any shock along any axis may be increased to 5 minutes, provided the ballonet is not exposed to ambient temperature for more than 3 minutes of the 5-minute period. If shock testing is not completed within the time limits specified, the ballonet shall be returned to the conditioning chamber for not less than 1 hour before shock tests are resumed. Post-test examination shall be as specified in 4.4.10.

4.4.9 Humidity. The loaded and packaged ballonet shall be tested in accordance with MIL-STD-810, Method 507, Procedure II. The ballonet shall be nonoperating during the test. In addition to the post test examination of 4.4.10, the following test shall be performed: Place the ballonet in the horizontal position and slit a lobe of lay-flat tubing along its center length. Remove equal amounts of blend from both ends

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and the center of the lobe and test for moisture and acidity contents in accordance with MIL-S-487. Remove a cup of blend and test for the angle of repose as specified in 4.4.4. To be acceptable, the requirements of 3.2.2 shall be met.

4.4.10 Post-test examination. Remove the ballonet and visually examine for damaged or loose parts. Test for separation of adhesive tape and evidence of holes or cracks in the lay-flat tubing by passing the template over each plastic tube, and by visual observation for puffs of sulfur blend through the end closures or through holes ahead of the template. Visually examine the lobe for evidence of white and yellow separation areas. It is not cause for rejection if the end that was tested for peel strength shows defects. Failure to meet the requirements of 3.2.1.1, 3.2.1.3, or 3.2.2 shall cause rejection.

4.4.11 Functional. The ballonet shall be tested in accordance with 4.4.11a if not tested in conjunction with the bomb, BLU-80/B, or tested in accordance with 4.4.11b if tested in conjunction with the bomb, BLU-80/B.

- a. The ballonet shall be installed in test fixture, Drawing SA 2875561 and the CCU-13/B impulse cartridge activated. After activation, the ballonet shall be visually examined to determine whether the tube expansion completely fills the volume of the test fixture. After examination, recollapse the ballonet. Conduct a leak check on the ballonet in accordance with 4.4.12. The ballonet shall meet the requirements of 3.2.1.4 to be acceptable.
- b. The ballonet shall be installed into the BLU-80/B bomb being tested in accordance with MIL-B-85251. Upon completion of the testing in accordance with MIL-B-85251, the ballonet shall be removed from the bomb, visually examined, and leak checked in accordance with 4.4.12. The ballonet shall meet the requirements of 3.2.1.4 to be acceptable for both leak checks.

4.4.12 Leak rate. All leak rate determinations shall be made by operators certified for helium leak testing. The leak detector shall be calibrated in accordance with ASTM-F-78 prior to leak rate determinations. Testing shall be conducted in accordance with ASTM-E498, Method A or ASTM-E499, Method A.

4.5 Packaging, packing and marking. Prior to shipment, the ballonets shall be inspected to ensure that preservation, packaging, packing and marking for shipment are in accordance with the requirements of Section 5.

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5. PACKAGING.

5.1 Preservation - packing.

5.1.1 Level A. The ballonet shall be packaged and packed in accordance with DL X4900811.

5.2 Marking. All marking for containers shall be in accordance with DL X4900811. Any additional marking which may be necessary shall be in accordance with MIL-STD-129, and Code of Federal Regulations 49 CFR 171-178.

6. NOTES AND CONCLUDING MATERIAL.

6.1 Intended use. The ballonet covered in this specification is intended for use in the BLU-80/B bomb.

6.2 Ordering data.

6.2.1 Procurement requirements. Procurement documents should specify the following:

- a. Title, number, and date of this specification.
- b. When a first article is required, it should be tested and approved under the appropriate provisions of 7-104.55 of the Defense Acquisition Regulations (DAR). The first article should be a preproduction sample consisting of 10 ballonets, and one waterproof container of excess blend as specified in 3.4.1. The contracting officer should include specific instructions in all procurement instruments, regarding arrangements for examinations, test and approval of the first article.
- c. Preproduction verification, if required (see 3.4.2).
- d. Responsibility for inspection and inspection facility if different than 4.1.
- e. Approval to conduct concurrent testing with bomb (see 4.1.2.2 and 4.2.1).

6.2.2 Data requirements. When this specification is used in a procurement which incorporates a Contract Data Requirements List (DD Form 1423) and invokes the provisions of 7-104.9(n) of the DAR, the data requirements identified below will be developed as specified by an approved Data Item Description (DID) (DD Form 1664) and delivered in accordance with the approved DD Form 1423 incorporated in the contract. When the provisions of DAR 7-104.9(n) are not invoked, the

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data specified below will be delivered by the contractor in accordance with the contract requirements. Deliverable data required by this specification are cited in the following paragraphs:

| <u>Paragraph</u> | <u>Data Requirement</u> | <u>Applicable DID</u> |
|-------------------------|-----------------------------|-----------------------|
| 3.3.2.1, 4.1.2.3, 4.2.4 | Certificate of Compliance | DI-E-2121 |
| 4.1.2.3, 4.2.4 | Inspection Report | DI-T-2072 |
| 3.3.2.3 | Manufacturing Documentation | DI-T-5204 |

(Copies of DID's required by the contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

6.3 Safety precautions. Sulfur dust or vapors are flammable and can explode when mixed with air and exposed to heat or flame. The lower limit of flammability in air is 30 milligrams per liter. Adequate ventilation should be provided to keep the concentration of sulfur in air below this limit. Sulfur is not considered toxic, but many of its compounds are poisonous. Contact with sulfur can result in conjunctivitis and irritation to sensitive skin.

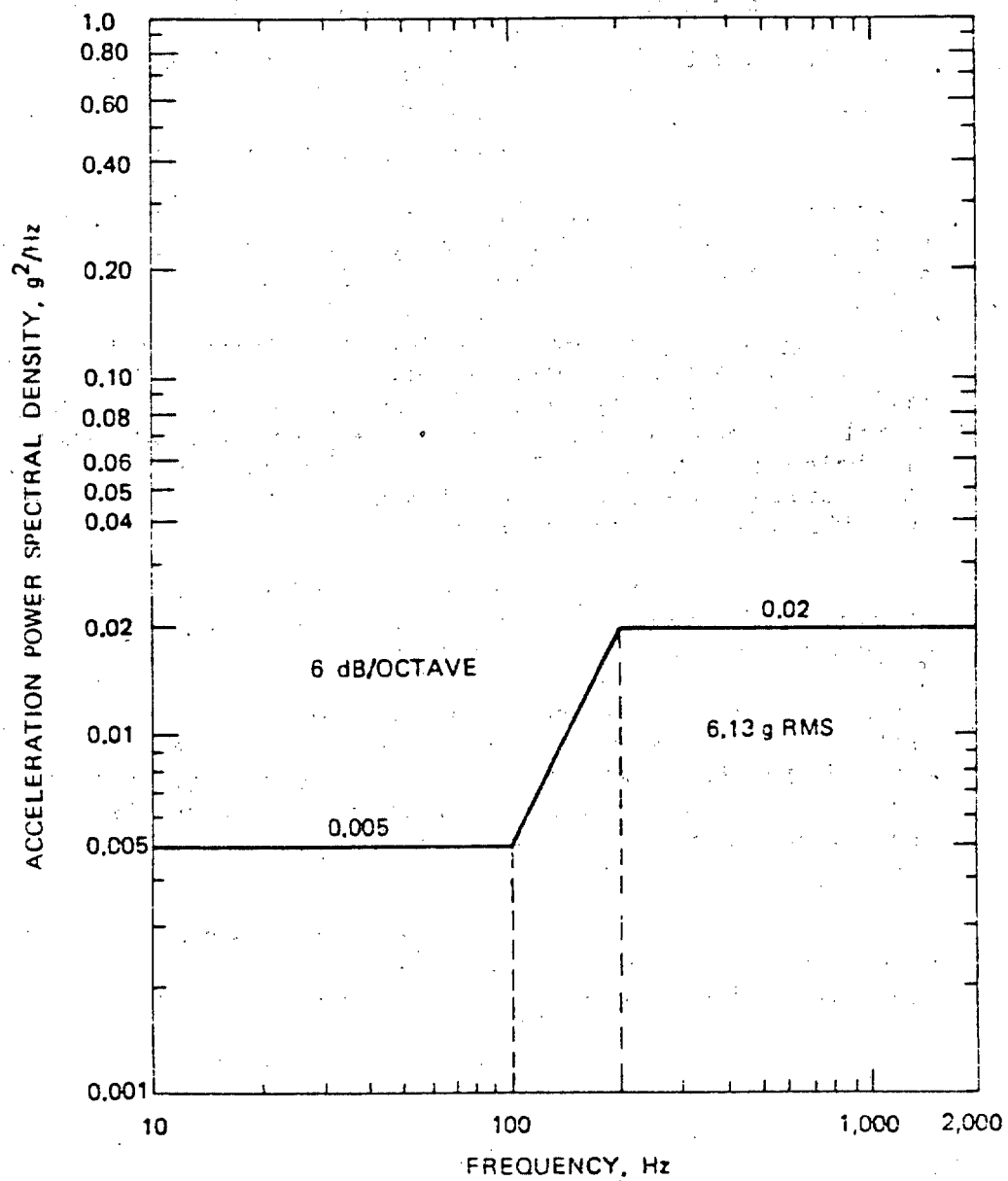
6.3.1 Personal apparel. Personnel should wear protective clothing to avoid skin contact and chemical safety goggles for eye protection and a dust respirator to avoid excessive inhalation.

6.3.2 Fires. Personnel who must fight fires of sulfur should be protected from the very toxic sulfur dioxide fumes. Water is the best extinguisher but small fires may also be controlled by smothering with sand. Since sulfur dust should not be scattered when fighting a fire, the use of a water spray is preferable to a solid stream or pressure hose.

6.3.3 Storage. Store sulfur in a cool, ventilated area away from water, heat, open flame, acute fire hazards and powerful oxidizing agents. Under these ideal conditions, the shelf life of sulfur is indefinite.

Preparing Activity:
NAVY - AS
(Project 1377-N718)

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FIGURE 1. Vibration schedule.

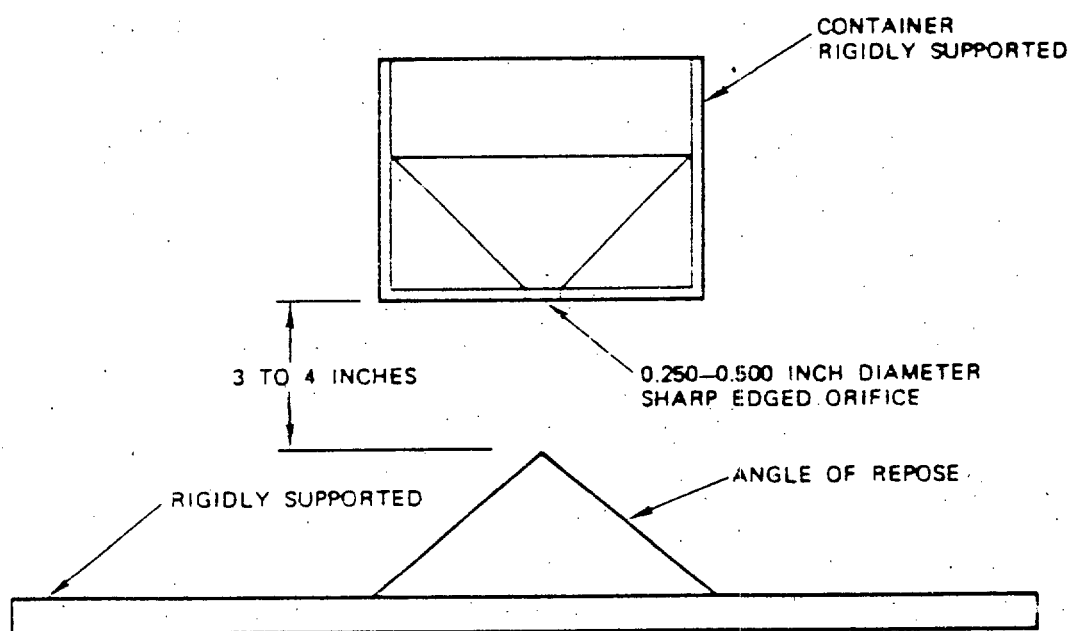


FIGURE 2. Test setup for angle of repose.

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS: This form is provided to solicit beneficial comments which may improve this document and enhance its use. DoD contractors, government activities, manufacturers, vendors, or other prospective users of the document are invited to submit comments to the government. Fold on lines on reverse side, staple in corner, and send to preparing activity. Attach any pertinent data which may be of use in improving this document. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity. A response will be provided to the submitter, when name and address is provided, within 30 days indicating that the 1426 was received and when any appropriate action on it will be completed.

NOTE: This form shall not be used to submit requests for waivers, deviations or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

DOCUMENT IDENTIFIER (Number) AND TITLE

MIL-B-85252(AS), Ballonet, Cartridge Activated (MXU-695/B)

NAME OF ORGANIZATION AND ADDRESS OF SUBMITTER

VENDOR USER MANUFACTURER

1. HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE? IS ANY PART OF IT TOO RIGID, RESTRICTIVE, LOOSE OR AMBIGUOUS? PLEASE EXPLAIN BELOW.

A. GIVE PARAGRAPH NUMBER AND WORDING

B. RECOMMENDED WORDING CHANGE

C. REASON FOR RECOMMENDED CHANGE(S)

2. REMARKS

SUBMITTED BY (Printed or typed name and address - Optional)

TELEPHONE NO.

DATE