

MIL-M-52372B
8 August 1980
SUPERSEDING
MIL-M-52372A
30 October 1973

MILITARY SPECIFICATION

MEASURES , DRY CHEMICAL, WATER PURIFICATION

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers measures for use in military designed water purification equipment sets.

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

FEDERAL

L-P-1035

Plastic Molding Material, vinyl Chloride Polymer and Vinyl Chloride - Vinyl Acetate Copolymer, Rigid .

FSC 4610

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: US Army Mobility Equipment Research and Development Command, ATTN: DRDME-DS, Fort Belvoir, VA 22060 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

- QQ-S-781
 - PPP-B-601
 - PPP-B-636
- Strapping, Steel, and Seals.
 - Boxes, Wood, Cleated-Plywood.
 - Boxes, Shipping, 'Fiberboard.

STANDARDS

MILITARY

- MIL-STD-105
 - MIL-STD-129
 - MIL-STD-130
 - MIL-STD-1188
- Sampling Procedures and Tables For Inspection by Attributes. Marking For Shipment and Storage.
 - Identification Marking of US Military Property. Commercial Packaging of Supplies and Equipment.

(Copies of specifications and standards 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.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

- Y14 5
- Dimensioning and Tolerancing For Engineering Drawings.

(Application for copies should "be addressed to the American National Standards Institute, Inc., 1430 Broadway, New' York, NY 10018.]

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- B 209
 - B 210
 - B 221
- Aluminum-Alloy Sheet and Plate.
 - Aluminum-Alloy Drawn Seamless Tubes.
 - Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Streets Philadelphia, PA 9103.)

(Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

3. REQUIREMENTS

3.1 Description. Measures shall be as shown on Figures 1 through 6 and as specified herein.

3.2 Material. Material and design shall be as shown on Figures 1 through 6, as specified (see 6.2), and as specified herein. Materials not specified shall be selected by the contractor and shall be subject to all provisions of this specification (see 6.3).

3.3 Identification marking. In addition to markings specified on the applicable figure, the measure shall be identified in accordance with MIL-STD-130.

3.4 Workmanship. All parts of the measures that are molded, formed or stamped, shall be clean and free from dirt, fins, cracks, pinholes, slivers, pits and other extraneous material that may impair the serviceability of the measures.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, 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.

4.2 Classification of inspection. Inspection requirements specified herein are classified as follows:

- (a) Quality conformance inspection (see 4.3).
- (b) Inspection of packaging (4.5).

4.3 Quality conformance inspection.

4.3.1 Sampling. Sampling for examination shall be in accordance with MIL-STD-105.

4.3.2 Examination. Samples selected in accordance with 4.3.1 shall be examined as specified in 4.4.1. AQL shall be 2.5 percent defective for major defects and 6.5 percent defective for minor defects.

4.4 Inspection Procedure.

4.4.1 Examination. Measures shall be examined as specified herein, for the following defects:

Major

101. Dimensions not as specified on figures.
102. Materials not as specified on figures.
103. Tolerances not as specified on figures.
104. Radius not as specified on figures.
105. Graduation lines not as specified on figures.
106. Workmanship not as specified.

Minor

201. Markings not as specified.
202. Identification missing, incomplete, or illegible.

4.5 Inspection of packaging.

4.5.1 Quality conformance inspection of pack.

4.5.1.1 Unit of product. For the purpose of inspection, a completely processed pack prepared for shipment shall be considered a unit of product.

4.5.1.2 Sampling. Sampling for examination shall be in accordance with MIL-STD-105.

4.5.1.3 Examination. Samples selected in accordance with 4.5.1.2 shall be examined for the following defects. AQL shall be 2.5 percent defective.

- 107. Materials or containers not as specified.
- 108. Weight limitations of container exceeded.
- 109. Strapping not as specified.
- 110. Marking illegible, incomplete, incorrect or missing.

5. PACKAGING

5.1 Preservation. Preservation shall be Level A or Commercial as specified (see 6.2).

5.1.1 Level A. Measures of like description shall be packaged in a close-fitting box conforming to PPP-B-636, Class Weather Resistant style optional, in quantities as specified. Cushioning and blocking shall be provided to prevent or control movement within the containers.

5.1.2 Commercial. Measures of like description shall be preserved in accordance with MIL-STD-1188.

5.2 Packing. Packing shall be Level A, Level B or Commercial as specified (see 6.2).

5.2.1 Level A. Measures of like description preserved as specified in 5.1 shall be packed in close-fitting boxes conforming to PPP-B-601, Overseas Type, style optional. Strapping shall conform to QQ-S-781, Class 1, Type I or IV, size as applicable. Unless otherwise specified (see 6.2) strapping shall be Finish B. When specified (see 6.2) strapping shall be Finish A.

5.2.2 Level B. Packing shall be as specified in 5.2.1 for Level A except that the boxes shall be Domestic Type and strapping shall be Finish A, or a box conforming to PPP-B-636, Class Weather Resistant, style optional.

5.2.3 Commercial. Measures of like description preserved as specified in 5.1 shall be packed in accordance with MIL-STD-1188.

5.3 Marking.

5.3.1 Military packaging. Marking shall be in accordance with MIL-STD-129.

5.3.2 Commercial packaging. Marking shall be in accordance with MIL-STD-1188.

6. NOTES

6.1 Intended use. The measures are intended to measure dry chemicals for military designed water purification equipment.

6.2 Ordering date. Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Figure required (see 3.2).
- (c) Degree of preservation and degree of packing required (see 5.1 and 5.2).
- (d) Quantity of measures in each box (see 5.1.1).
- (e) When strapping shall be Finish A (see 5.2.1).

6.3 Recycled material. It is encouraged that recycled material be used, when practical, as long as it meets the requirements of this specification (see 3,2).

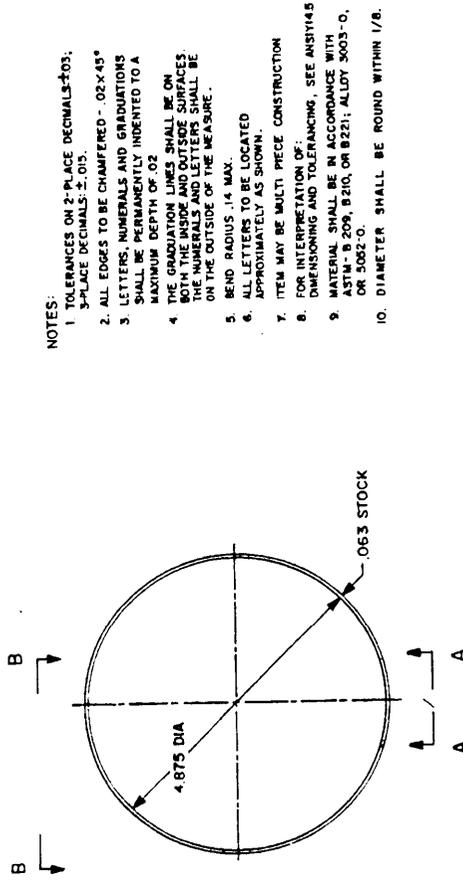
Custodians:
 ,Army - ME
 Air Force - 99

Preparing activity:
 Army-ME

Review activity:
 DLA - CS

User activity:
 Navy - MC, YD

Project 4610-0092



NOTES:

1. TOLERANCES ON 2-PLACE DECIMALS+.03; 3-PLACE DECIMALS-.05.
2. ALL EDGES TO BE CHAMFERED - .02 X 45°
3. LETTERS, NUMERALS AND GRADUATIONS SHALL BE PERMANENTLY INDENTED TO A MAXIMUM DEPTH OF .02
4. THE GRADUATION LINES SHALL BE ON BOTH THE INSIDE AND OUTSIDE SURFACES THE NUMERALS AND LETTERS SHALL BE ON THE OUTSIDE OF THE MEASURE.
5. BEND RADIUS .14 MAX.
6. ALL LETTERS TO BE LOCATED APPROXIMATELY AS SHOWN.
7. ITEM MAY BE MULTI PIECE CONSTRUCTION
8. FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ANS1Y145
9. MATERIAL SHALL BE IN ACCORDANCE WITH ASTM - B 209, B210, OR B221; ALLDY 3003-O, OR 5052-O.
10. DIAMETER SHALL BE ROUND WITHIN 1/8.

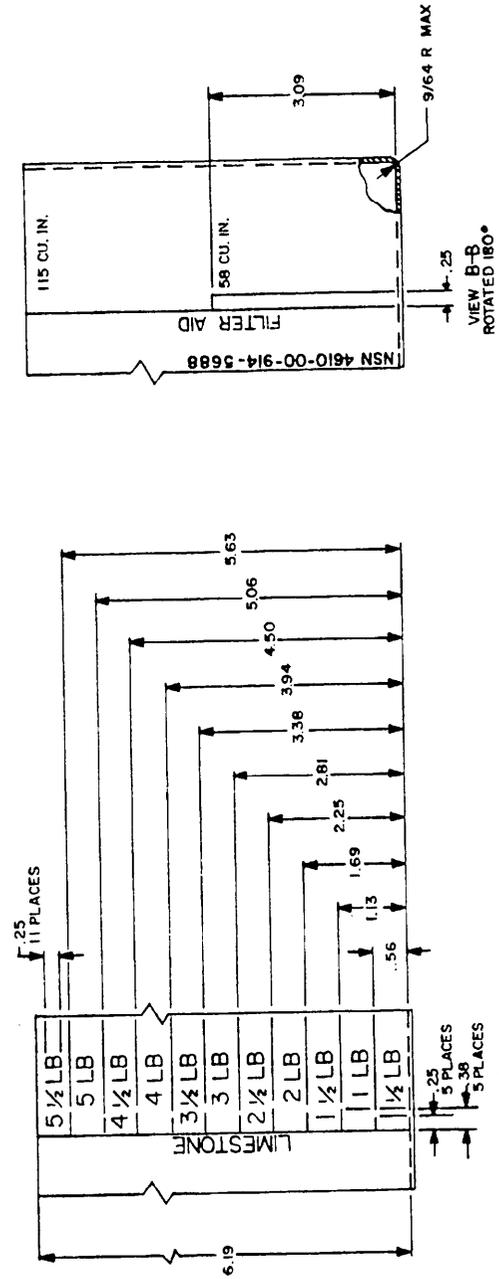
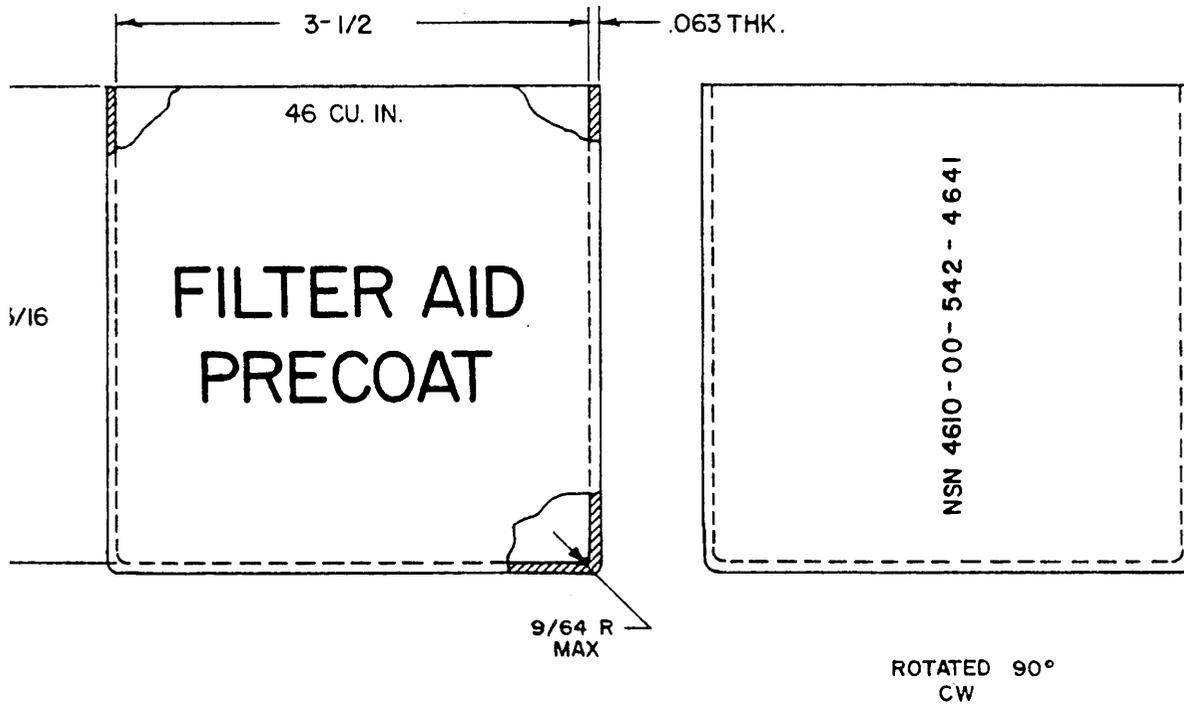


FIGURE 1. Measure combination 5 1/2 pound limestone, and 115 cu. in. filter aid.

X-2465A



NOTES

1. ALL EDGES TO BE CHAMFERED $1/64 \times 45^\circ$.
2. LETTERS AND NUMERALS SHALL BE PERMANENTLY INDENTED TO A MAXIMUM DEPTH OF $1/64$ AND SHALL BE ON THE OUTSIDE OF THE MEASURE AND SHALL BE LIMITED TO 220/0 OF THE PERIPHERY.
3. DIAMETER SHALL BE ROUND WITHIN $1/8$.
4. TOLERANCES ON 3-PLACE DECIMAL + .005; FRACTIONS + $1/64$.
5. FOR INTERPRETATION OF: DIMENSIONING AND TOLERANCING, SEE ANSI Y14. 5
6. MATERIAL SHALL BE IN ACCORDANCE WITH ASTM 9209, B210, OR B 221 ; ALLOY 30030, OR 50520.
7. ITEM MAY BE MULTI PIECE CONSTRUCTION,

FIGURE 2, Measure filter aid, 46 cu. in.

X-2466 A

- NOTES:
1. ALL EDGES TO BE CHAMFERED $1/64 \times 45^\circ$.
 2. LETTERS, NUMERALS AND HORIZONTAL GRADUATIONS SHALL BE PERMANENTLY INDENTED TO A MAXIMUM DEPTH OF $1/64$.
 3. THE HORIZONTAL GRADUATION LINES SHALL BE ON BOTH THE INSIDE AND THE OUTSIDE SURFACES. THE NUMERALS AND LETTERS SHALL BE ON THE OUTSIDE OF THE MEASURE AND SHALL BE LIMITED TO 22% OF THE PERIPHERY.
 4. DIAMETER SHALL BE ROUND WITHIN $1/8$.
 5. TOLERANCES ON 3-PLACE DECIMAL $\pm .005$; FRACTIONS $\pm 1/64$.
 6. FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ANSI Y14.5
 7. MATERIAL SHALL BE IN ACCORDANCE WITH ASTM-B209, B210, OR B221; ALLOY 3003-O OR 5052-O.
 8. ITEM MAY BE MULTI PIECE CONSTRUCTION.

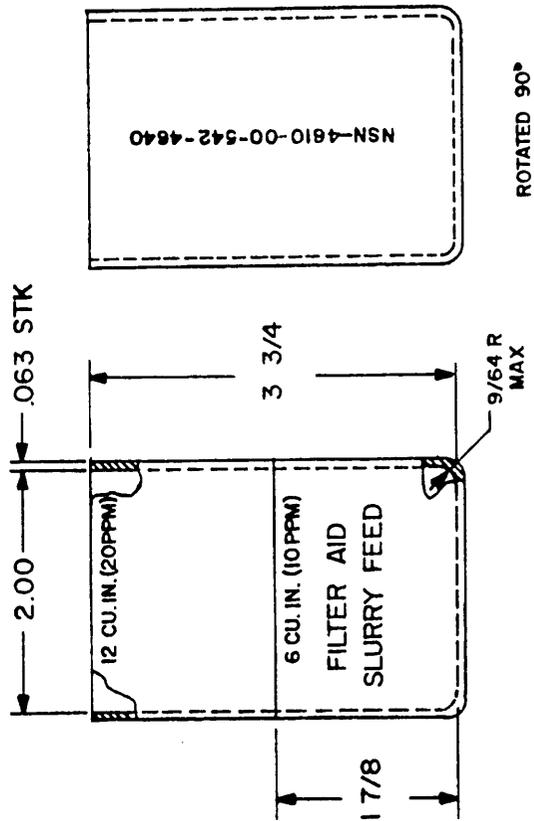


FIGURE 3. Measure, filter aid; 12 cu. in.

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- NOTES:
1. ALL EDGES TO BE CHAMFERED $1/64 \times 45^\circ$
 2. LETTERS, NUMERALS, AND HORIZONTAL GRADUATIONS SHALL BE PERMANENTLY INDENTED TO A MAXIMUM DEPTH OF $1/64$.
 3. THE HORIZONTAL GRADUATION LINES SHALL BE ON BOTH THE INSIDE AND THE OUTSIDE SURFACES. THE NUMERALS AND LETTERS SHALL BE ON THE OUTSIDE OF THE MEASURE AND SHALL BE LIMITED TO 22% OF THE PERIPHERY.
 4. DIAMETER SHALL BE ROUND WITHIN $1/8$.
 5. FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ANSI Y14.5
 6. MATERIAL SHALL BE IN ACCORDANCE WITH ASTM-B209, B210 OR B221; ALLOY 3003-O, OR 5052-O.
 7. TOLERANCES ON FRACTIONS SHALL BE $\pm 1/64$ AND ON DECIMALS SHALL BE $\pm .005$.
 8. ITEM MAY BE MULTI PIECE CONSTRUCTION.

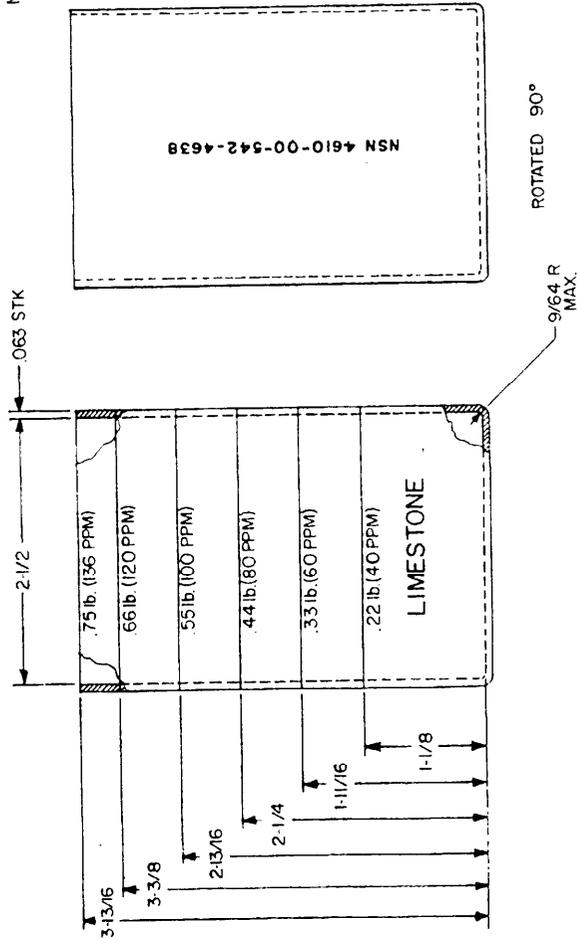
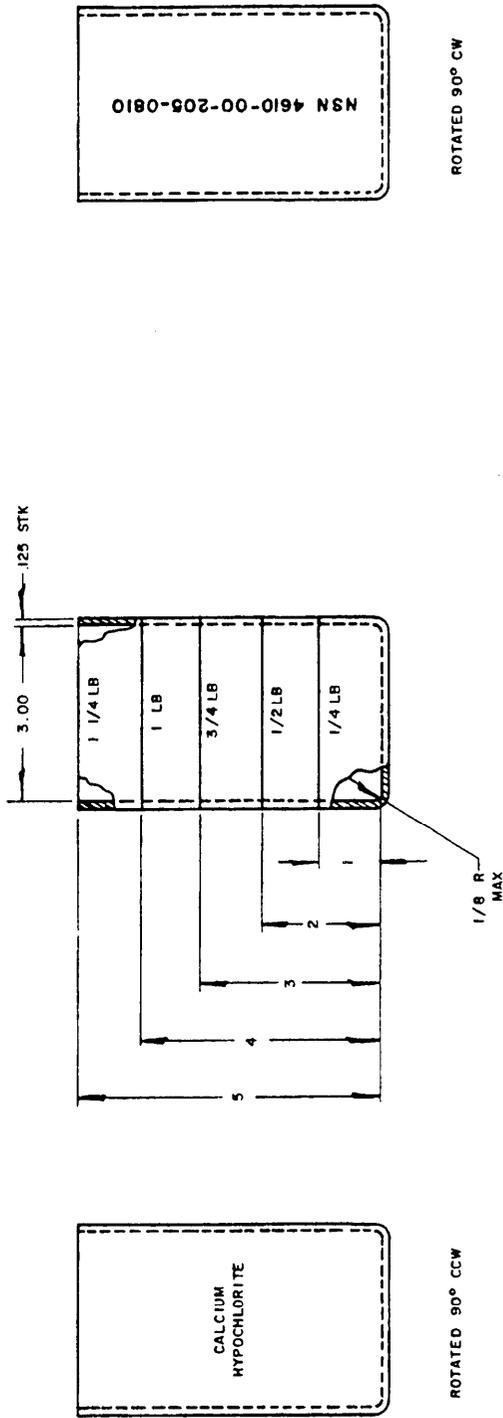


FIGURE 4. Measure limestone, 0.75 lb.

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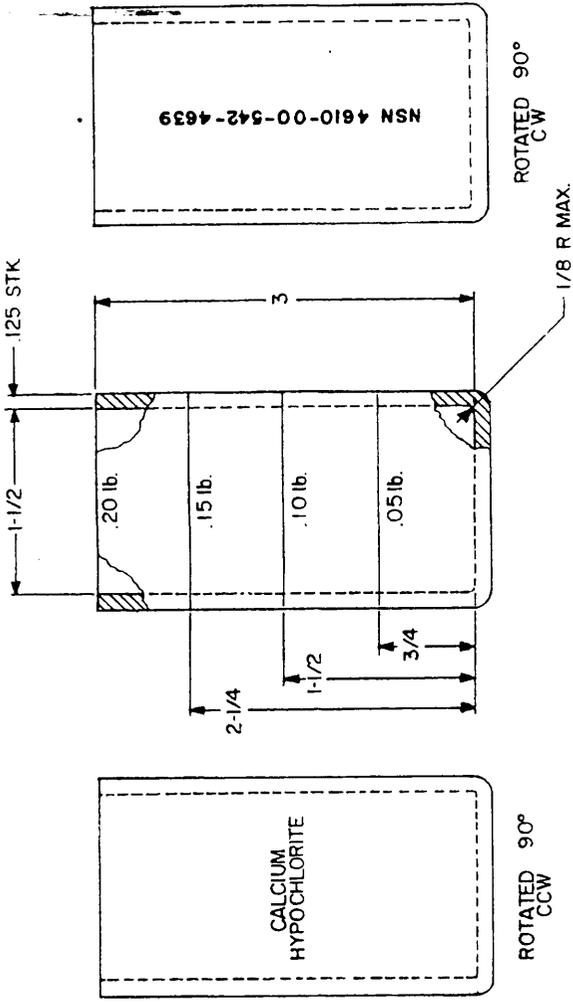


NOTES:

1. ALL EDGES TO BE CHAMFERED 1/64 X 45°.
2. LETTERS, NUMERALS AND HORIZONTAL GRADUATIONS SHALL BE PERMANENTLY INDENTED TO A MAXIMUM DEPTH OF 1/64.
3. THE HORIZONTAL GRADUATION LINES SHALL BE ON BOTH THE INSIDE AND OUTSIDE SURFACES. THE NUMERALS AND LETTERS SHALL BE ON THE OUTSIDE OF THE MEASURE AND SHALL BE LIMITED TO 22% OF THE PERIPHERY.
4. DIAMETER SHALL BE ROUND WITHIN 1/8.
5. FOR INTERPRETATION OF:
DIMENSIONING AND TOLERANCING, SEE ANSIZH.5.
6. TOLERANCES ON FRACTIONS SHALL BE ±1/64 AND ON DECIMALS ±.010.
7. MATERIAL TO BE PLASTIC POLYVINYL CHLORIDE, L-P-1035, TYPE III, GRADE NT.
8. ITEM MAY BE MULTI PIECE CONSTRUCTION.

FIGURE 5. Measure calcium hypochlorite, 1 1/4 lb.

X-2469A



- NOTES:
1. ALL EDGES TO BE CHAMFERED 1/64 x 45°
 2. LETTERS, NUMERALS, AND HORIZONTAL GRADUATIONS SHALL BE PERMANENTLY INDENTED TO A MAXIMUM DEPTH OF 1/64.
 3. THE HORIZONTAL GRADUATION LINES SHALL BE ON BOTH THE INSIDE AND THE OUTSIDE SURFACES. THE NUMERALS AND LETTERS SHALL BE ON THE OUTSIDE OF THE MEASURE AND SHALL BE LIMITED TO 22% OF THE PERIPHERY.
 4. DIAMETER SHALL BE ROUND WITHIN 1/8.
 5. FOR INTERPRETATION OF: DIMENSIONING AND TOLERANCING, SEE ANSI Y14.5.
 6. TOLERANCES ON FRACTIONS SHALL BE ± 1/64 AND ON DECIMALS SHALL BE ± .010.
 7. MATERIAL TO BE PLASTIC POLYVINYL CHLORIDE, L-P-1035 TYPE III, GRADE NT.
 8. ITEM MAY BE MULTI PIECE CONSTRUCTION.

FIGURE 6. Measure calcium hypochlorite, 0.20 lb.

X-2470A

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

OMB Approval
No. 22-R255

INSTRUCTIONS: The purpose of this form is to solicit beneficial comments which will help achieve procurement of suitable products at reasonable cost and minimum delay, or will otherwise enhance use of the document. DoD contractors, government activities, or manufacturers/vendors who are prospective suppliers of the product are invited to submit comments to the government. Fold on lines on reverse side, staple in corner, and send to preparing activity. 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. 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.

DOCUMENT IDENTIFIER AND TITLE

MIL-M-52372B Measures, Dry Chemical, Water Purification

NAME OF ORGANIZATION AND ADDRESS

CONTRACT NUMBER

MATERIAL PROCURED UNDER A

DIRECT GOVERNMENT CONTRACT SUBCONTRACT

1. HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?

A. GIVE PARAGRAPH NUMBER AND WORDING.

B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES

2. COMMENTS ON ANY DOCUMENT REQUIREMENT CONSIDERED TOO RIGID

3. IS THE DOCUMENT RESTRICTIVE?

YES NO (If "Yes", in what way?)

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