

INCH-POUND

MS35758D
w/AMENDMENT 1
11/19/2015
SUPERSEDING
MS35758D
30 August 2012

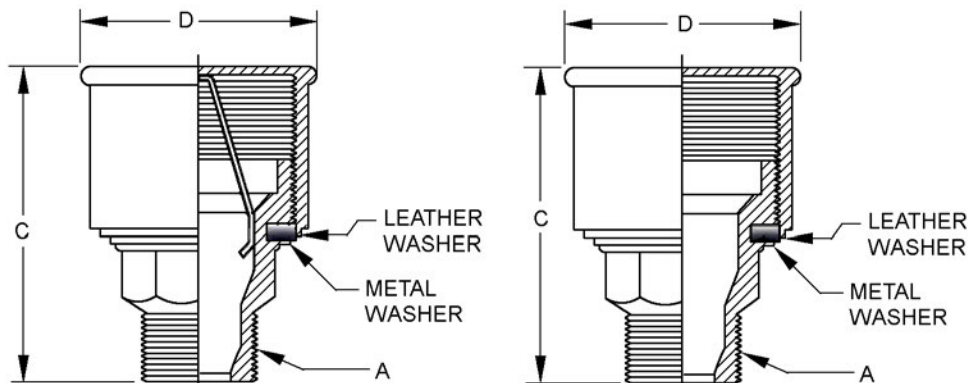
DETAIL SPECIFICATION SHEET

CUPS, GREASE, MANUAL FEED

Inactive for new design after 5 April 1999.

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

The requirements for this product described herein shall consist of this specification sheet and MIL-C-1213.



OPTIONAL DESIGN (WITHOUT RATCHET)

| Dash numbers | | | Grease capacity ounce | A Thread | B max OD inch (mm) | C max Overall length inch (mm) |
|--------------|--------|----------|-----------------------|--------------|--------------------|--------------------------------|
| Steel | | Brass | | | | |
| Uncoated | Plated | Uncoated | | | | |
| -1 | -4 | -7 | .25 | .125 -27 NPT | 1.125 (28.58) | 1.625 (41.28) |
| -2 | -5 | -8 | .50 | .125 -27 NPT | 1.250 (31.75) | 1.875 (47.63) |
| -3 | -6 | -9 | 1.0 | .250 -18 NPT | 1.875 (47.63) | 2.500 (63.50) |
| ----- | ----- | -10 | 2.0 | .375 -18 NPT | 2.250 (57.15) | 2.875 (73.03) |
| ----- | ----- | -11 | 3.5 | .500 -14 NPT | 2.750 (69.85) | 3.250 (82.55) |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, the tolerance for 3 place decimals is $\pm .005$ inch (0.13 mm).
4. Threads shall be in accordance with FED-STD-H28/7, FED-STD-H28/8, ASME B1.20.1 and ASME B1.20.3.
5. The illustration is for identification only and is not intended to restrict design or shapes not dimensioned.

FIGURE 1. Cups, grease, manual feed.

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REQUIREMENTS:

Manual feed grease cups shall be specified on figure 1 and tables I and II.

Materials shall be, specified in table I.

TABLE I. Materials.

| Code | Material | Form | Specification | Alloy |
|------|------------------------|-------------------|--|---|
| B | B Brass | Bars | ASTM B16/B16M ASTM B36/B36M ASTM B121/B121M ASTM B124/B124M | 260, 268, or 360 |
| | | Castings | ASTM B61 ASTM B62 ASTM B148 ASTM B176 ASTM B271/B271M ASTM B369 ASTM B427 ASTM B505/B505M ASTM B584 ASTM B763/B763M ASTM B770 ASTM B806 SAE AMS4842 SAE AMS4845 SAE AMS4855 SAE AMS4860 SAE AMS4862 SAE AMS4890 | As applicable |
| C | Low carbon steel | Bars and forgings | SAE-AIR4127 | In accordance with, any standard composition. |
| S | Stainless Steel (CRES) | N/A | SAE AMS5659, SAE AMS5862 or alloy 15-5 PH, ASTM A564/A564M type XM-12 or UNS S15500 or SAE AMS5665 | As applicable |

Spring materials.

Spring for steel cup shall be steel in accordance with ASTM A229/A229M or ASTM A227/A227M, class 2.

Spring for brass cup shall be brass in accordance with ASTM B159/B159M.

Leather washer.

The leather shall be made from cattle hides. The leather shall be tanned with chromium salts (mineral-tanned) without the use of vegetable tanning materials. No degreasing shall be employed after the normal tanning process.

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Leather shall be treated with a fungicidal agent in accordance with MIL-DTL-32068 to render the material fungus-resistant.

Plating finish designators for dash -4, -5, and -6 only shall be in accordance with table II.

TABLE II. Plating finish identification codes. 1/

| PIN code plating finish | Material | Plating finish |
|-------------------------|----------|---|
| C | Steel | Cadmium plating in accordance with SAE AMS-C-81562, type II, class 3 or SAE-AMS-QQ-P-416, type II, class 2, <u>2/</u> |
| H | Steel | Zinc phosphate finish in accordance with MIL-DTL-16232 type Z, class 2. <u>3/</u> |
| J | Steel | Zinc plating in accordance with ASTM B633; type II or III, Fe/Zn 5, or ASTM B695, type II, class 5 |
| N | Steel | Zinc plating in accordance with ASTM B633, type VI, Fe/Zn 5, |
| P | Steel | Zinc/Aluminum in accordance with ASTM F1136/F1136M, grade 3, NC. |
| V | Steel | Zinc-nickel in accordance with SAE AMS2417, type 1 |
| S | CRES | Passivate in accordance with SAE AMS2700, type 6 or 7. <u>4/</u> |

1/ Finished product shall show no red corrosion products after 96 hours of salt spray testing in accordance with ASTM B117. For PIN code "H" the salt spray requirement is 72 hours.

2/ Hydrogen embrittlement test need not be run.

3/ Hexavalent chromium free.

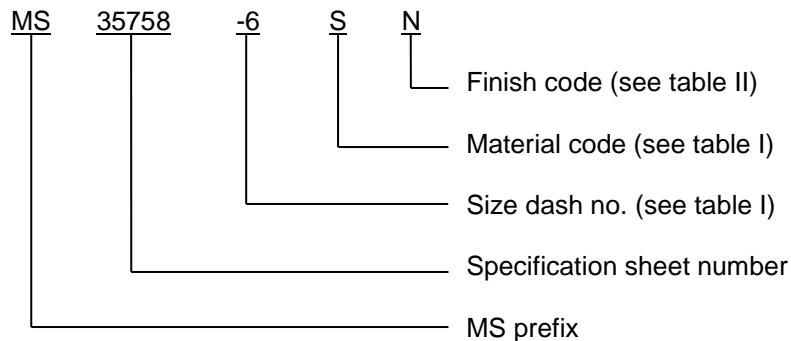
4/ If finish code is the same as material code, then omit finish code.

Trivalent wrenchability:

This term is used to evaluate the ability of the finish to withstand abrasion from excessive amount of wrenching. Where wrenchability is poor, the need to touch-up the finish is needed. Brush plating of hard chromium by electrodeposition shall be in accordance with SAE AMS2451/5 and brush plating of medium-hardness, low stress nickel by electrodeposition shall be in accordance with SAE AMS2451/9.

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Part or Identifying Number (PIN): (The PIN covers the complete item with nuts and sleeves.)



Guidance on the use of Alternative Plating that is less hazardous or nonhazardous on environment. This specification provides for a number of alternative plating materials via the PIN. Users should select the PIN with the least hazardous material that meets the form, fit and function requirements of their application.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. In addition to MIL-C-1213, this document references the following:

| | | |
|-----------------|-------------------|------------------|
| FED-STD-H28/7 | ASTM B148 | SAE-AMS-QQ-P-416 |
| FED-STD-H28/8 | ASTM B159/B159M | SAE AMS2417 |
| MIL-DTL-16232 | ASTM B176 | SAE AMS2451/5 |
| MIL-DTL-32068 | ASTM B271/B271M | SAE AMS2451/9 |
| ASME B1.20.1 | ASTM B369 | SAE AMS2700 |
| ASME B1.20.3 | ASTM B427 | SAE AMS4842 |
| ASTM A227/A227M | ASTM B505/B505M | SAE AMS4845 |
| ASTM A229/A229M | ASTM B584 | SAE AMS4855 |
| ASTM A564/A564M | ASTM B633 | SAE AMS4860 |
| ASTM B16/B16M | ASTM B695 | SAE AMS4862 |
| ASTM B36/B36M | ASTM B763/B763M | SAE AMS4890 |
| ASTM B61 | ASTM B770 | SAE AMS5659 |
| ASTM B62 | ASTM B806 | SAE AMS5862 |
| ASTM B117 | ASTM F1136/F1136M | SAE AMS5665 |
| ASTM B121/B121M | SAE AIR4127 | |
| ASTM B124/B124M | SAE AMS-C-81562 | |

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CONCLUDING MATERIAL

Custodians:

Army - AR
Navy - SH
Air Force - 99
DLA - CC

Preparing activity:
DLA-CC

(Project 4730-2015-073)

Review activities:

Army - AT
Navy - AS, MC
Air Force - 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.