



OPTIONAL DESIGNS

TABLE I

| DASH NO. | NOM SIZE | A INSIDE DIAMETER | | B OUTSIDE DIAMETER | | C THICKNESS | |
|----------|----------|-------------------|------|--------------------|-------|-------------|------|
| | | MAX | MIN | MAX | MIN | MAX | MIN |
| 19 | .250 | .267 | .256 | .536 | .500 | .045 | .035 |
| 20 | .3125 | .332 | .320 | .607 | .590 | .050 | .040 |
| 21 | .375 | .398 | .384 | .748 | .700 | .050 | .042 |
| *22 | .4375 | .464 | .448 | .858 | .800 | .067 | .050 |
| 23 | .500 | .530 | .512 | .924 | .880 | .067 | .055 |
| *24 | .5625 | .596 | .576 | 1.034 | .990 | .067 | .055 |
| 25 | .625 | .663 | .640 | 1.135 | 1.100 | .067 | .059 |
| 26 | .750 | .795 | .768 | 1.265 | 1.240 | .084 | .070 |
| 27 | .875 | .927 | .894 | 1.447 | 1.400 | .084 | .075 |

(D) * INACTIVE FOR NEW DESIGN AFTER 6 FEBRUARY 1974.

NOTES:

- MATERIAL:** Carbon steel in accordance with Fed. Std. No. 66, AISI 1050 to 1064.
- PROTECTIVE COATING:** Cadmium plated in accordance with QQ-P-416, Type II, Class J.
- DIMENSIONS:** All dimensions in Table I are in inches. All dimensions in Table II are in millimetres.
- PART NUMBER:** The MS part number consists of the MS number, plus the dash number. Example: MS35334-19.
- The number of teeth shall be at the option of the manufacturer.
- For applications involving contact with aluminum or corrosion-resisting steel, cadmium only shall be used.
- Referenced documents shall be of the issue in effect on date of invitations for bid.
- For design feature purposes, this standard takes precedence over procurement documents referenced herein.

(D)

TABLE II
METRIC TRANSLATION OF TABLE I

| DASH NO. | NOM SIZE | A INSIDE DIAMETER | | B OUTSIDE DIAMETER | | C THICKNESS | |
|----------|----------|-------------------|-------|--------------------|-------|-------------|------|
| | | MAX | MIN | MAX | MIN | MAX | MIN |
| 19 | 6.35 | 6.78 | 6.50 | 13.61 | 12.70 | 1.14 | .89 |
| 20 | 7.94 | 8.43 | 8.13 | 15.42 | 14.99 | 1.27 | 1.02 |
| 21 | 9.52 | 10.11 | 9.75 | 19.00 | 17.78 | 1.27 | 1.07 |
| *22 | 11.11 | 11.79 | 11.38 | 21.79 | 20.32 | 1.70 | 1.27 |
| 23 | 12.70 | 13.46 | 13.00 | 23.47 | 22.35 | 1.70 | 1.40 |
| *24 | 14.29 | 15.14 | 14.63 | 26.26 | 25.15 | 1.70 | 1.40 |
| 25 | 15.88 | 16.84 | 16.26 | 28.83 | 27.94 | 1.70 | 1.50 |
| 26 | 19.05 | 20.19 | 19.51 | 32.13 | 31.50 | 2.13 | 1.78 |
| 27 | 22.22 | 23.55 | 22.71 | 36.75 | 35.56 | 2.13 | 1.90 |

* INACTIVE FOR NEW DESIGN AFTER 6 FEBRUARY 1974.

(D) FOR CHANGES SEE SHEET 1 & 2.

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

REVIEWER: AV, IS, MU, NS
USER: AS, AT, MC, OS, SH, WY, YD

| | | |
|---------------------------------------|---|-------------------|
| P.A. WC | TITLE | MILITARY STANDARD |
| Other Cust 82 | WASHER, LOCK-FLAT, HEAVY, INTERNAL TOOTH | MS 35334 |
| PROCUREMENT SPECIFICATION FF-W-100 | SUPERSEDES: BEA33 | SHEET 1 OF 2 |

INTERCHANGEABILITY

The following washers of MS35334 are canceled after 26 August 1964. The canceled washers cannot always replace the new washers and should be used until existing stocks are depleted. Use only the new washers for new design and replacement. Replacement shall be in accordance with Table III.

TABLE III

| PART NUMBER | | | PART NUMBER | | | | |
|------------------|----|----|-----------------------|------------------|----|-----------------------|----|
| CANCELED MS35334 | | | SUPERSEDED BY MS35334 | CANCELED MS35334 | | SUPERSEDED BY MS35334 | |
| 1 | 10 | 28 | 19 | 6 | 15 | 33 | 24 |
| 2 | 11 | 29 | 20 | 7 | 16 | 34 | 25 |
| 3 | 12 | 30 | 21 | 8 | 17 | 35 | 26 |
| 4 | 13 | 31 | 22 | 9 | 18 | 36 | 27 |
| 5 | 14 | 32 | 23 | | | | |

REVIEWER: AV, IS, MU, NS
USER: AS, AT, MC, OS, SH, SV, YD

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APPROVED 4 MAR 1954 REVISED (A) 18 APR 1956 (B) 26 AUG 1964 (C) 7 DEC 1967 (D) FOR CHANGES SEE SHEETS 1 AND 2.

(D) SHEET 2 ADDED

| | | |
|---------------------------------------|--|-------------------------------|
| P.A. WC Other Code 82 | TITLE WASHER, LOCK-FLAT, HEAVY, INTERNAL TOOTH | MILITARY STANDARD MS 35334 |
| PROCUREMENT SPECIFICATION FF-W-100 | SUPERSEDES: BEAX3 | SHEET 2 OF 2 |

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

MS35334 Rev D, Washer, Lock-Flat, Heavy, Internal Tooth

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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