MATERIAL: Steel, alloy, minimum proof load based on 130,000 PSI, Rockwell C36-43 in accordance with Type I of Procurement Specification.

PROTECTIVE COATING: Uncoated.

2-1/2

The threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H-28.

1964

SEP

5

•

29

APRIL ഗ **(**

REVISED

1955

AUG 29

APPROVED

38

39

40 41

28

29

30

Handbook H-28.

MINIMUM THREAD LENGTH: Shall be one and one half times the diameter, plus 1/2 in. or 3/8 the length whichever is the greater. Screws too short for the formula shall be threaded as close to the head as practicable.

LENGTH TOLERANCE: The allowable tolerance on the length (1) under the head on lengths 2 inches and under shall be 3 per cent of the nominal length with a minimum of .030 in., two-thirds to be applied plus and one-third minus. On lengths over 2 in. to 6 in. plus or minus 1/32 in. and on lengths over 6 in. plus or minus 1/16 in.

NOTES: (1) Referenced documents of issue in effect on date of invitation for bids shall apply.

(2) This document has been promulgated by the Department of Defense as the Military Standard to limit the selection of the item, product or design covered herein in engineering, design and procurement. This standard shall become effective not later than 90 days after the latest date of approval shown and shall govern when in conflict with other documents referenced herein.

(3) Plain or knurled heads are optional.

Plain or knurled heads are optional. The MS part number consists of the MS number, plus the dash number. Example: MS35456-1.

All dimensions in inches.

(B) ENTIRE STANDARD REVISED - INACTIVE FOR DESIGN SEE SHEET 2

| P.A. WC Other Cust SHIPS | TITLE CORFIN CAR COCKET USAR HEYACON ALLOY | MILITARY STANDARD | |
|-----------------------------------|--|-------------------|--|
| ASD | SCREW, CAP, SOCKET HEAD-HEXAGON, ALLOY STEEL, UNCOATED, UNF-3A | MS35456 | |
| PROCUREMENT SPECIFICATION FF-S-86 | SUPERSEDES: | SHEET 1 OF 2 | |

REVIEWER: IS, EL, SHIPS, WC, WEPS, MI, MU, NO USER:

| | | | | | | | FED. SUP CLASS 5305 |
|---|---|------------|--|----------------------|--|--|------------------------|
| | NOMINAL SIZE | | 3/8 | 7/16 | 1/2 | 5/8 | |
| В | THREADS PER INCH | | 24 UNF-3A | 20 UNF-3A | 20 UNF-3A | 18: UNF-3A | |
| D | BODY DIAMETER | MAX MIN | .3750 | .4375 .4326 | .5000 | .6250 .6191 | |
| A | HEAD DIAMETER | MAX MIN | 9/16 | 5/8 .615 | 3/4 .739 | 7/8 .863 | |
| Н | HEAD HEIGHT | MAX MIN | 3/8 | 7/16 .430 | 1/2 / | 5/8 .616 | |
| J | SOCKET SIZE | NOM | \$/16 | 5/16 | 3/8/ | 1/2 | |
| R | RADIUS | MAX MIN | :015 :010 | .030 | .030 .020 | .030 | |
| L | LENGTH | | DASH NO. | DASH NO. | DASH NO. | DASH NO. | DASH NO. |
| | 1/2 5/8 3/4 7/8 1 1-1/4 1-1/2 1-3/4 2-1/4 2-1/2 3 | | 42 43 44 45 46 47 48 49 49 50 51 52 53 | 54 55 56 58 | 62 63 64 65 67 67 68 69 | 70 71 72 73 74 75 76 77 | |

NOTE: For material, protective coating and other pertinent data, see sheet 1.

INACTIVE FOR DESIGN after 21 SEP 1964 Use MS16998 for Design and Engineering. For maintenance of existing equipment use MS35456 to replace the 5/16, 7/16 and 5/8 inch sizes. These sizes cannot be replaced by those appearing on MS16998 in counterbored holes or other close applications.

SHEET

CHANGES SEE

62 ® FOR

REVISED (A) 5 APRIL

1955

29 AUG

APPROVED

is military standard is approved by the Uspatzment of Ustan Adeltoy on all activities. Selection for all raw engineering Adeltoy and for repetitive use shell be made from this doc

| P.A. WC | TITLE | MILITARY STANDARD | | |
|-----------------------------------|--|-------------------|--|--|
| Other Cust SHIPS ASD | SCREW, CAP, SOCKET HEAD-HEXAGON, ALLOY STEEL, UNCOATED, UNF-3A | MS 35456 | | |
| PROCUREMENT SPECIFICATION FF-S-86 | SUPERSEDES: | SHEET 2 OF | | |