

FED. SUPPLY CLASS

5310

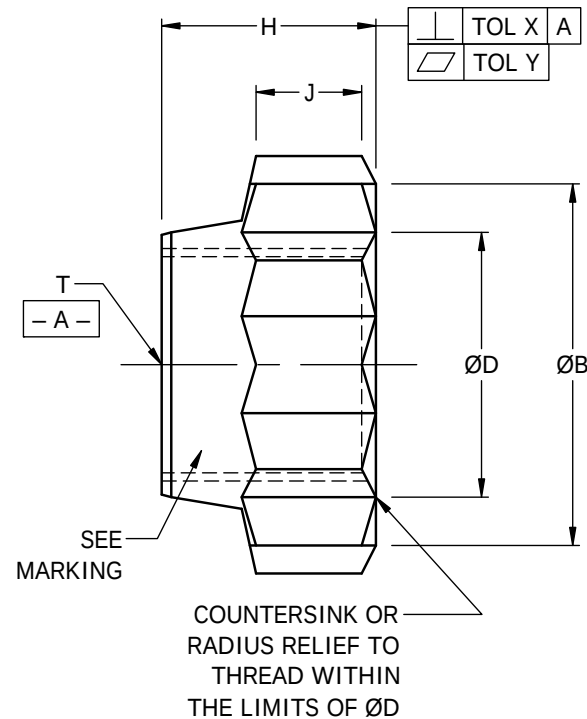
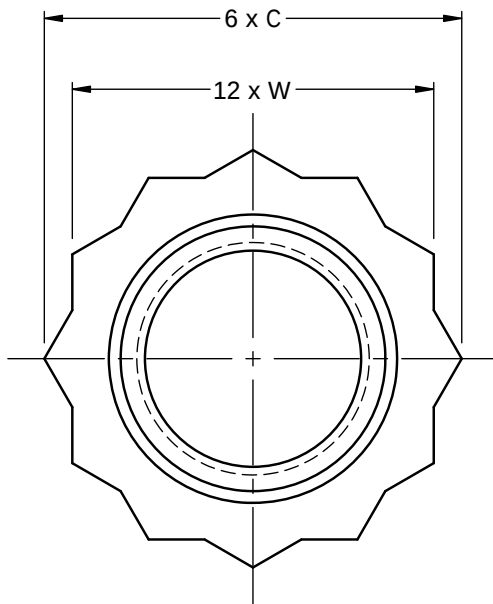


TABLE I – DIMENSIONS AND STRENGTH VALUES

| DASH NO | T THREAD          | ØB    | C     | ØD    | H     | J    | W     |       | TOL X | TOL Y | ULTIMATE TENSILE STRENGTH LBS MIN | MAXIMUM WEIGHT LBS/100 |
|---------|-------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-----------------------------------|------------------------|
|         |                   |       |       |       |       |      | MAX   | MIN   |       |       |                                   |                        |
| 3       | .1900-32 UNJF-3B  | .367  | .419  | .210  | .151  | .028 | .376  | .367  | .005  | .002  | 3,500                             | .23                    |
| 4       | .2500-28 UNJF-3B  | .430  | .491  | .270  | .199  | .053 | .439  | .430  | .006  | .002  | 6,260                             | .43                    |
| 5       | .3125-24 UNJF-3B  | .492  | .561  | .332  | .245  | .075 | .502  | .492  | .007  | .002  | 9,920                             | .65                    |
| 6       | .3750-24 UNJF-3B  | .553  | .631  | .405  | .294  | .098 | .564  | .553  | .008  | .002  | 14,700                            | .98                    |
| 7       | .4375-20 UNJF-3B  | .679  | .775  | .467  | .344  | .110 | .690  | .679  | .009  | .003  | 19,900                            | 1.82                   |
| 8       | .5000-20 UNJF-3B  | .741  | .846  | .530  | .394  | .129 | .752  | .741  | .010  | .003  | 26,600                            | 2.36                   |
| 9       | .5625-18 UNJF-3B  | .865  | .987  | .597  | .447  | .137 | .877  | .865  | .011  | .003  | 33,700                            | 2.98                   |
| 10      | .6250-18 UNJF-3B  | .928  | 1.059 | .660  | .499  | .156 | .940  | .928  | .012  | .003  | 42,200                            | 4.32                   |
| 12      | .7500-16 UNJF-3B  | 1.052 | 1.200 | .781  | .608  | .290 | 1.064 | 1.052 | .014  | .003  | 61,300                            | 7.66                   |
| 14      | .8750-14 UNJF-3B  | 1.239 | 1.414 | .906  | .717  | .337 | 1.252 | 1.239 | .017  | .004  | 83,600                            | 11.80                  |
| 16      | 1.0000-12 UNJF-3B | 1.427 | 1.628 | 1.031 | .829  | .394 | 1.440 | 1.427 | .019  | .004  | 109,000                           | 17.80                  |
| 18      | 1.1250-12 UNJF-3B | 1.614 | 1.842 | 1.156 | .945  | .466 | 1.627 | 1.614 | .021  | .005  | 140,000                           | 26.80                  |
| 20      | 1.2500-12 UNJF-3B | 1.801 | 2.056 | 1.281 | 1.060 | .507 | 1.814 | 1.801 | .024  | .006  | 174,000                           | 38.20                  |
| 22      | 1.3750-12 UNJF-3B | 1.988 | 2.269 | 1.406 | 1.187 | .561 | 2.002 | 1.988 | .027  | .006  | 212,000                           | 49.50                  |
| 24      | 1.5000-12 UNJF-3B | 2.176 | 2.484 | 1.531 | 1.311 | .623 | 2.190 | 2.176 | .030  | .007  | 255,000                           | 64.20                  |

② COMPLETELY REVISED

|                                        |                                                                      |                                 |
|----------------------------------------|----------------------------------------------------------------------|---------------------------------|
| THIRD ANGLE PROJECTION                 | CUSTODIAN<br>NATIONAL AEROSPACE STANDARDS COMMITTEE                  | REVISION<br><b>2</b>            |
|                                        |                                                                      |                                 |
| PROCUREMENT SPECIFICATION<br><br>NOTED | TITLE<br><br><b>NUT, SELF-LOCKING, DOUBLE HEXAGON, SHEAR, 450 °F</b> | CLASSIFICATION<br>PART STANDARD |
|                                        |                                                                      | <b>NAS1759</b><br>SHEET 1 OF 2  |

**MATERIAL:** ALLOY STEEL - 17-22 (UNS K14675) PER AMS6304, 8740 (UNS G87400) PER AMS6322, OR H-11 (UNS T20811) PER ~~AMS6485~~ AMS6487.

**HARDNESS:** 38-45 HRC.

**FINISH:** CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2 PLUS SOLID FILM LUBRICANT.  
CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2 PLUS NON SOLID FILM LUBRICANT (WAX TYPE).

**LUBRICATION:** SOLID FILM LUBRICANT PER AS5272, TYPE I.  
NON SOLID FILM LUBRICANT, CETYL ALCOHOL PER AS87132, TYPE I OR III, GRADE OPTIONAL.

**MARKING:** MANUFACTURER'S SYMBOL LOCATION OPTIONAL, EXCEPT SHALL NOT BE LOCATED ON BEARING SURFACE. SIZES 3 THROUGH 7 WITHOUT MANUFACTURER'S SYMBOL MAY BE SUPPLIED UNTIL AUGUST, 1997.

**CODE:** ADD "L" TO PART NUMBER FOR SOLID FILM LUBRICANT.

**EXAMPLE OF PART NUMBER:**

NAS1759-4 = .2500-28 UNJF-3B NUT, CADMIUM PLATED, NON SOLID FILM LUBRICANT  
NAS1759L4 = .2500-28 UNJF-3B NUT, CADMIUM PLATED, SOLID FILM LUBRICANT

**NOTES:**

- (1) THREADS PER AS8879.
- (2) DIMENSIONS AND TOLERANCING PER ANSI Y14.5M-1982. PERPENDICULARITY TOLERANCES APPLY AS MEASURED IN ACCORDANCE WITH NAS3353.
- (3) DIMENSIONS IN INCHES AND APPLY AFTER FINISH AND PRIOR TO THE APPLICATION OF LUBRICATION UNLESS OTHERWISE SPECIFIED.
- (4) UPPER THREADED PORTION DEFORMED TO PROVIDE SELF-LOCKING ACTION. TOOL MARKS PERMISSIBLE IN LOCKING AREA.
- (5) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (6) REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
- (7) SURFACE ROUGHNESS: 125 MICROINCHES Ra PER ASME B46.1.
- (8) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.

**PROCUREMENT SPECIFICATION:** NASM8922 EXCEPT AS NOTED. WRENCH TORQUES SHALL BE ONE HALF VALUES. ALL NUTS SHALL MEET QUALIFICATION AND INSPECTION REQUIREMENTS. MANUFACTURERS SHALL PROVIDE EVIDENCE OF QUALIFICATION WHEN REQUIRED. TESTING SHALL BE PERFORMED BY MANUFACTURER OR INDEPENDENT LABORATORY. PROCURING AGENCY MAY CONDUCT CONFORMING QUALIFICATION TESTS. NO QPL SHALL BE ESTABLISHED.

**DESIGN AND USAGE LIMITATIONS:** THESE NUTS INTENDED FOR USE ON 220,000 PSI BOLTS.

② COMPLETELY REVISED

| REVISION       |
|----------------|
| 2              |
| <b>NAS1759</b> |
| SHEET 2        |



**Documents**

Document Sharing Hub