

FED. SUP CLASS
9306

MARK PART NUMBER AND MANUFACTURERS
IDENTIFICATION PER AS478 CLASS A

MS9537

SECTION THROUGH THREAD PROFILE

| VIEW A ENLARGED | | | | SECTION THROUGH THREAD PROFILE | | | |
|-----------------|-------|-------------|----------------------|--------------------------------|-------|-------------|----------------------|
| PART NUMBER | L | K | APPROX WEIGHT LB/100 | PART NUMBER | L | K | APPROX WEIGHT LB/100 |
| MS9537-06 | 1.250 | .129-.149 | 25.04 | MS9537-31 | 3.625 | 1.815-1.875 | 51.47 |
| MS9537-07 | 1.312 | .129-.149 | 25.74 | MS9537-32 | 3.750 | 1.940-2.000 | 42.86 |
| MS9537-08 | 1.375 | .129-.149 | 26.43 | MS9537-33 | 3.875 | 2.065-2.125 | 54.25 |
| MS9537-09 | 1.438 | .129-.149 | 27.13 | MS9537-34 | 4.000 | 2.190-2.250 | 65.64 |
| MS9537-10 | 1.500 | .129-.149 | 27.82 | MS9537-35 | 4.125 | 2.315-2.375 | 57.03 |
| MS9537-11 | 1.562 | .129-.149 | 28.52 | MS9537-36 | 4.250 | 2.440-2.500 | 58.42 |
| MS9537-12 | 1.625 | .129-.149 | 29.22 | MS9537-37 | 4.375 | 2.565-2.625 | 59.81 |
| MS9537-13 | 1.688 | .129-.149 | 29.91 | MS9537-38 | 4.500 | 2.690-2.750 | 61.20 |
| MS9537-14 | 1.750 | .129-.149 | 30.61 | MS9537-39 | 4.625 | 2.815-2.875 | 62.59 |
| MS9537-15 | 1.812 | .129-.149 | 31.30 | MS9537-40 | 4.750 | 2.940-3.000 | 63.98 |
| MS9537-16 | 1.875 | .129-.149 | 32.00 | MS9537-41 | 4.875 | 3.065-3.125 | 65.37 |
| MS9537-17 | 1.938 | .129-.188 | 32.69 | MS9537-42 | 5.000 | 3.190-3.250 | 66.76 |
| MS9537-18 | 2.000 | .190-.250 | 33.39 | MS9537-43 | 5.125 | 3.315-3.375 | 68.15 |
| MS9537-19 | 2.125 | .315-.375 | 34.78 | MS9537-44 | 5.250 | 3.440-3.500 | 69.54 |
| MS9537-20 | 2.250 | .440-.500 | 36.17 | MS9537-45 | 5.375 | 3.565-3.625 | 70.93 |
| MS9537-21 | 2.375 | .565-.625 | 37.56 | MS9537-46 | 5.500 | 3.690-3.750 | 72.32 |
| MS9537-22 | 2.500 | .690-.750 | 38.95 | MS9537-47 | 5.625 | 3.815-3.875 | 73.71 |
| MS9537-23 | 2.625 | .815-.875 | 40.34 | MS9537-48 | 5.750 | 3.940-4.000 | 75.11 |
| MS9537-24 | 2.750 | .940-1.000 | 41.73 | MS9537-49 | 5.875 | 4.065-4.125 | 76.50 |
| MS9537-25 | 2.875 | 1.065-1.125 | 43.12 | MS9537-50 | 6.000 | 4.190-4.250 | 77.89 |
| MS9537-26 | 3.000 | 1.190-1.250 | 44.51 | | | | |
| MS9537-27 | 3.125 | 1.315-1.375 | 45.90 | | | | |
| MS9537-28 | 3.250 | 1.440-1.500 | 47.29 | | | | |
| MS9537-29 | 3.375 | 1.565-1.625 | 48.68 | | | | |
| MS9537-30 | 3.500 | 1.690-1.750 | 50.08 | | | | |

- SHANK SHALL BE STRAIGHT WITHIN .002 PER INCH OF BOLT LENGTH.
- THE CONCENTRICITY OF THREAD PD IN RELATION TO THE SHANK SHALL BE WITHIN .006 FIR.
- THE CONCENTRICITY OF THE SHANK IN RELATION TO THE WASHER FACE DIAMETER AND HEXAGON SHALL BE WITHIN .032 FIR.
- INCOMPLETE THREADS NOT TO ENTER PILLET.
- MATERIAL: STEEL AMS 6322.
- HARDNESS: ROCKWELL C26-32.
- FINISH: CADMIUM PLATE PER AMS 2400. DIMENSIONS SPECIFIED ARE AFTER PLATING.
- MAGNETIC PARTICLE INSPECTION PER AMS 2640.
- MANUFACTURING SPECIFICATION: AMS 7452 EXCEPT HEAD MUST BE UPSET.
- SURFACE TEXTURE: USAS 846.1-1962. UNLESS OTHERWISE SPECIFIED SURFACES TO BE 125 MICROINCHES, EXCEPT HEXAGON.
- BREAK SHARP EDGES .003 - .015 UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED. TOLERANCES: LINEAR DIMENSIONS ± .010, ANGULAR DIMENSIONS ± 5°.
- DO NOT USE UNASSIGNED PART NUMBERS.

CERTAIN PROVISIONS OF THIS STANDARD ARE THE SUBJECT OF AN INTERNATIONAL STANDARDIZATION AGREEMENT DATED APR 27/52. WHEN REVISION OR CANCELLATION OF THIS STANDARD IS DESIRED, THE DEPARTMENTAL OFFICERS WILL OBTAIN THEIR RESPECTIVE DEPARTMENTAL STANDARDIZATION OFFICES OF THAT AFFILIATE AND A JOINT ACTION WILL BE TAKEN REGARDING THE INTERNATIONAL AGREEMENT CONCERNED.

AS 4 AMS ARE SOCIETY OF AUTOMOTIVE ENGINEERS, INC. PUBLICATIONS.
THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE MILITARY SERVICES BY THE S.A.E. AEROSPACE PROPULSION DIVISION.

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| P.A. USAF-11 | INTERNATIONAL INTEREST | TITLE BOLT, MACHINE-STEEL AMS 6322, CADMIUM PLATE, DRILLED, 1 HOLE, HEXAGON HEAD, .750-16 UNJF-3A | MILITARY STANDARD MS9537 |
| Other Cust NAVY-45 ARMY-45 | | | |
| PROCUREMENT SPECIFICATION NONE | SUPERSEDES: | | SHEET 1 OF 1 |

This military standard has been approved by the Department of Defense and is mandatory 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.

revision activities: