



NOTES:

1. MATERIAL: ALLOY STEEL, AMS 6487, AMS 6304.
2. HARDNESS: ROCKWELL C 48 MAX.
3. SURFACE TEXTURE: BEARING SURFACE 125/IN ACCORDANCE WITH ANSI B46.1.
- Ⓐ 4. PLATING: CADMIUM PLATE (VACUUM DEPOSIT) IN ACCORDANCE WITH MIL-C-8837, TYPE II, CLASS 2.
5. LUBRICANT: LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN THE PROCUREMENT SPECIFICATION.
6. PAINT: AFTER BAKE, THE AREA ABOVE WRENCHING ELEMENT WITH NO. 15102 BLUE PER TT-Z-489.
7. THREADS: MIL-8-8879 BEFORE LUBRICATION.
8. WRENCHING ELEMENT, PER MS33787. DRIVERS PER MIL-W-8982.
9. DIMENSIONS IN INCHES: DIMENSIONS APPLY BEFORE LUBRICATION.
10. DESIGN USAGE INFORMATION: THESE NUTS ARE DESIGNED TO BE USED WITH MS14163 BOLTS AND MS14155 WASHERS.
11. PERPENDICULARITY: BEARING SURFACE SHALL BE NORMAL WITH PITCH DIAMETER OF THREAD WITHIN "X" (SEE TABLE) WHEN CHECKED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
12. PERFORMANCE: PER MIL-N-8922 EXCEPT FOR:
 - a. THREADS AND BEARING SURFACES SHALL BE LUBRICATED WITH MIL-T-5544 COMPOUND FOR WRENCH TORQUE, TORQUE EFFECTIVITY, LOCKING TORQUE, PERMANENT SET, ACCELERATED VIBRATION, STRESS DURABILITY AND STRESS CORROSION.
 - b. TABULATED SEATING TORQUE FOR TORQUE EFFECTIVITY TEST.
 - c. MINIMUM BREAKAWAY 1st CYCLE TORQUE VALUES ARE NOT APPLICABLE. USE MINIMUM BREAKAWAY TORQUE VALUES.
 - d. FOR WRENCHING TORQUE, BOLTS SHALL BE 260,000 P.S.I. MINIMUM.

EXAMPLE OF PART NUMBERS:

MS14164-04 = .2500-28 NUT, CADMIUM PLATED, SOLUBLE LUBRICANT.

Ⓐ DENOTES CHANGES

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

P.A. NAVY - AS. Other Cost USAF - 11 ARMY - AV	TITLE	MILITARY STANDARD
	NUT, WHEEL, SELF-LOCKING, FLANGED, STEEL, 220 KSI Fcu, 450°F. SPLINE DRIVE	MS14164
PROCUREMENT SPECIFICATION MIL-N-8922	SUPERSEDES:	SHEET 1 OF 2

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 engineering and design applications and for routine use shall
 be made from this document.

APPROVED 3 DEC 75
 REVISED Ⓐ 6 MAY 1991

TABLE I. NUT DIMENSIONS AND STRENGTHS

DASH NO.	NOMINAL SIZE	THREAD	MS33787 ELEMENT NUMBER	A		B	ID	
				MAX	MIN	MIN	MAX	MIN
-04	1/4	.2500-28UNJF-3B	10	.438	.428	.408	.280	.250
-05	5/16	.3125-24UNJF-3B	12	.531	.521	.501	.342	.312
-06	3/8	.3750-24UNJF-3B	14	.649	.639	.609	.405	.375
-07	7/16	.4375-20UNJF-3B	18	.750	.740	.710	.473	.438
-08	1/2	.5000-20UNJF-3B	20	.828	.818	.788	.535	.500
-09	9/16	.5625-18UNJF-3B	22	.938	.928	.898	.597	.562
-10	5/8	.6250-18UNJF-3B	24	1.050	1.040	1.010	.660	.625
-12	3/4	.7500-16UNJF-3B	30	1.230	1.220	1.190	.785	.750
-14	7/8	.8750-14UNJF-3B	34	1.438	1.428	1.398	.910	.875
-16	1	1.0000-12UNJF-3B	38	1.625	1.615	1.575	1.035	1.000

TABLE I. (CONTINUED)

DASH NO.	H MAX	V MIN	J MIN	X MIN	ULTIMATE AXIAL STRENGTH LB. MIN	SEATING TORQUE FOR TORQUE EFFECTIVITY TEST IN-LB	APPROX WEIGHT LB/100
-04	.300	.030	.110	.003	8,870	130	.41
-05	.385	.045	.147	.003	14,100	260	.77
-06	.455	.070	.176	.003	20,900	460	1.20
-07	.520	.085	.206	.003	28,300	730	1.80
-08	.600	.105	.235	.003	37,800	1100	3.50
-09	.680	.105	.264	.004	47,900	1600	4.60
-10	.740	.105	.294	.004	59,900	2200	6.10
-12	.900	.130	.353	.004	86,900	3900	11.00
-14	1.060	.155	.411	.005	119,000	6100	17.00
-16	1.210	.185	.470	.006	155,000	9200	25.00

REVIEWED SYMBOLS:
ARMY - AR, ER, AT, ME
DLA - IS

*Revision/size information is current as of the date of the document.
For future coordination of changes to this document, direct communication should be made as the information in the current 00B155.

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

APPROVED 3 DEC 75 REVISED A FOR CHANGES SEE SHEET 1

P. A. NAVY - AS Other Cust	TITLE NUT, WHEEL, SELF-LOCKING, FLANGED, STEEL, 220 KSI F _{tu} , 450°F, SPLINE DRIVE	MILITARY STANDARD MS14164
PROUREMENT SPECIFICATION MIL-N-8922	SUPERSEDES.	SHEET 2 OF 2