

USER SYMBOLS
11, 99
AIR FORCE
ARMY
NAVY

REVERSE SYMBOLS
99
AIR FORCE
ARMY
DLA

Review/issue information is current as of the date of this document.
For future coordination of changes in this document, draft circulation
should be based on the information in the current DOORS.

RESOLUTION STATEMENT: APPROVED FOR PUBLIC RELEASE. DISTRIBUTION IS UNLIMITED.
This military standard is approved for use by all Departments.
B. Agencies of the Department of Defense. Selection for all new
engineering and design applications and for repetitive use shall
be made from this document.

AMSC N/A

NOTES

- 1 MATERIAL ALLOY STEEL, AMS 6304, AMS 6485 AND AMS 6487
- 2 HARDNESS ROCKWELL C48 MAX
- 3 SURFACE TEXTURE BEARING SURFACE 125 MICROINCHES MAXIMUM IN ACCORDANCE WITH AMSI 846 1-78
- 4 PLATING CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II CLASS 2 DRY FILM LUBRICATED NUTS IN ACCORDANCE WITH QQ-P-416 TYPE AND CLASS OPTIONAL IF THE NUTS WILL MEET THE SALT SPRAY REQUIREMENTS OF QQ-P-416, TYPE II
- 5 LUBRICANT LUBRICANT APPROVED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION LUBRICANTS, EXCEPT DRY FILM LUBRICANTS, SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN THE PROCUREMENT SPECIFICATION ~~OR USA APPLICATIONS, NUTS TREATED WITH DRY FILM LUBRICANTS SHALL NOT BE UTILIZED IN INTEGRAL FUEL TANKS~~
- 6 THREADS MIL-S-8879 BEFORE LUBRICATION
- 7 WRENCHING ELEMENT PER MS13787 DRIVERS PER MIL-W-8982
- 8 PERPENDICULARITY BEARING SURFACE SHALL BE NORMAL WITH PITCH DIAMETER OF THREAD WITHIN X WHEN CHECKED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION
- 9 DIMENSIONS IN INCHES DIMENSIONS APPLY BEFORE LUBRICATION
- 10 DESIGN AND USAGE INFORMATION THESE NUTS ARE DESIGNED TO BE USED WITH MS21297 BOLTS AND MS21206 WASHERS
- 11 F CODE DESIGNATES FULL SPLINE CONFIGURATION AND J CODE DESIGNATES LOW SPLINE CONFIGURATION IN PART NUMBER

EXAMPLE OF PART NUMBERS

- MS21084-04 = 2500-28 NUT, CADMIUM PLATED, SOLUBLE LUBRICANT SPLINE HEIGHT OPTIONAL
 MS21084L04 = 2500-28 NUT, CADMIUM PLATED, DRY FILM LUBRICATED, SPLINE HEIGHT OPTIONAL
 MS21084L04L = 2500-28 NUT, CADMIUM PLATED, DRY FILM LUBRICATED, LOW SPLINE
 MS21084-04F = 2500-28 NUT, CADMIUM PLATED SOLUBLE LUBRICANT FULL SPLINE

- IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE

REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DoDISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN

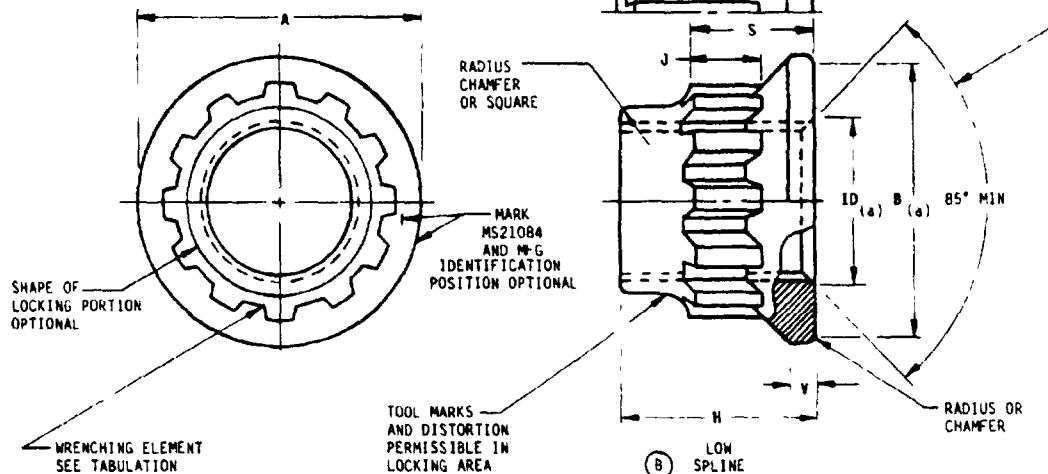
ⓑ DENOTES CHANGES

PA NAVY - AS Other Cust USAF - 11 ARMY - AV	TITLE NUT SELF-LOCKING, STEEL, 220 KSI F _{tu} , 450° FLANGED, MS33787 WRENCHING ELEMENT	MILITARY STANDARD	
		MS21084	
PROCUREMENT SPECIFICATION MIL-N-8922	SUPERSEDES	SHEET	OF

DD FORM 1 MAR 72 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PROJECT NO 531C-1467



FED SUP CLASS
5310

APPROVED 28 JAN 1972 REVISED 15 MARCH 1978 17 OCT 86

UNITS SYMBOLS:
11, 99
AIR FORCE
MI
ARMY
NAVY
AS

UNITS SYMBOLS:
99
AIR FORCE
AT
ARMY
DLA
IS

"Changes from information is current as of the date of this document.
For future contributions of changes to this document, staff contributions
should be based on the information in the current edition."

This military standard is approved for use by all Departments
A representative of the Department of Defense, Division for all
engineering and design applications and for replacement use only
is made from this document.

FED SUPCLASS
5310

DASH NUMBER		NOMINAL SIZE	THREAD	MS33787 ELEMENT NUMBER	A MAX	B (b) MIN	D (a)	
NON-DRY LUBE	DRY LUBE						MAX	MIN
03	L03	NO 10	1900-32UNJF-38	8	362	322	220	190
04	L04	1/4	2500-28UNJF-38	10	460	420	280	250
05	L05	5/16	3125-24UNJF-38	12	563	523	342	312
06	L06	3/8	3750-24UNJF-38	14	669	629	405	375
07	L07	7/16	4375-20UNJF-38	18	773	733	473	438
08	L08	1/2	5000-20UNJF-38	20	879	839	535	500
09	L09	9/16	5625-18UNJF-38	22	982	942	597	562
10	L10	5/8	6250-18UNJF-38	24	1 088	1 048	660	625
12	L12	3/4	7500-16UNJF-38	30	1 296	1 256	785	750
14	L14	7/8	8750-14UNJF-38	34	1 505	1 465	910	875
16	L16	1	1 0000-12UNJF-38	38	1 720	1 670	1 035	1 000
18	L18	1 1/8	1 1250-12UNJF-38	44	1 931	1 881	1 160	1 125
20	L20	1 1/4	1 2500-12UNJF-38	48	2 144	2 094	1 285	1 250
22	L22	1 3/8	1 3750-12UNJF-38	52	2 357	2 307	1 410	1 375
24	L24	1 1/2	1 5000-12UNJF-38	56	2 571	2 521	1 535	1 500

DASH NUMBER		F (B) + .000 - .020	I (K) + .020 - .000	J MIN	K	ULTIMATE AXIAL STRENGTH LB MIN (D)	APPROX WEIGHT LB/100	S (c) ± .010 (B)
NON-DRY LUBE	DRY LUBE							
03	L03	220	023	089	003	4,770	26	142
04	L04	290	033	110	003	8,540	51	189
05	L05	360	038	147	003	13,500	88	242
06	L06	430	045	176	003	20,900	1 40	291
07	L07	500	053	206	003	28,300	2 40	311
08	L08	575	060	235	003	37,800	3 50	362
09	L09	650	068	264	004	47 900	4 80	444
10	L10	720	075	294	004	59,900	6 30	461
12	L12	860	090	353	004	86,900	11 00	545
14	L14	1 000	105	411	005	119,000	17 00	643
16	L16	1,150	120	470	006	155,000	25 00	791
18	L18	1 300	135	529	007	198,000	37 00	828
20	L20	1 440	150	588	007	247,000	50 00	921
22	L22	1 580	165	646	008	301,000	66 00	1 031
24	L24	1 720	180	705	008	361,000	84 00	1 144

- (a) MINIMUM BEARING AREA BASED ON A BEARING STRESS OF 115 KSI
(b) AXIAL STRENGTH DETERMINED FROM FORMULA $A W_b = F_t W_A$ WHERE A IS THE CROSS SECTIONAL AREA
IN SQUARE INCHES, BASED ON THE MAXIMUM PITCH DIAMETER OF BOLT THREAD, F_t IS 220 KSI AND
 W_b IS THE AXIAL STRENGTH IN POUNDS
(c) S DIMENSION APPLIES TO LOW HEIGHT SPLINE ONLY

P.A. NAVY - AS Other Cust USAF - 11 ARMY - AV	TITLE NUT, SELF-LOCKING, STEEL, 220 KSI F_t , 450°F FLANGED MS33787 WRENCHING ELEMENT	MILITARY STANDARD MS21084
PROCUREMENT SPECIFICATION MIL-N-8922	SUPERSEDES	SHEET 2 OF 2

DD FORM 672-1 (Coordinated)
1 MAR 72

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

APPROVED 26 JAN 1972
REVISION 6 FOR CHANGES SEE SHEET 1 AND 2