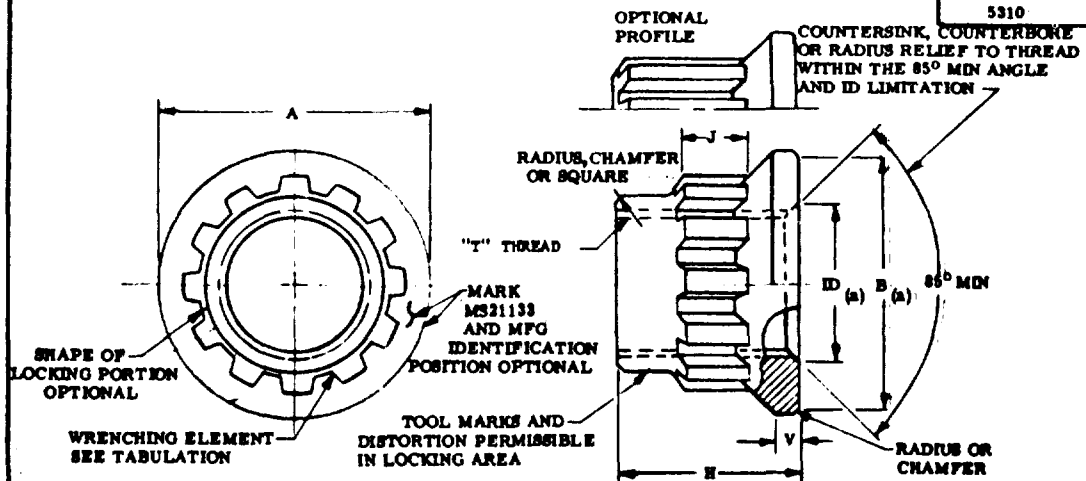


(PROJECT NO. 5310-0624)

FED. SUP CLASS  
5310

USER SYMBOLS:

REVIEWER SYMBOLS:



NOMI- NAL SIZE	DASH NUMBER		"T" THREAD	MS33787 ELEMENT NUMBER	A DIA MAX	B DIA MIN (a)	ID (a)		H MAX	V MIN	J MIN	X	ULTIMATE AXIAL STRENGTH LB MIN <sup>(b)</sup>	APPROX WEIGHT LB/100
	NON- DRY LUB	DRY LUB					MAX	MIN						
NO. 10	03	L03	.1900-32UNJF-3B	8	.346	.306	.220	.190	.190	.021	.084	.003	3,910	.21
7/16	04	L04	.2500-28UNJF-3B	10	.439	.399	.280	.250	.250	.028	.110	.003	6,980	.41
5/16	05	L05	.3125-24UNJF-3B	12	.534	.494	.342	.312	.312	.034	.138	.004	11,100	.72
3/8	06	L06	.3750-24UNJF-3B	14	.634	.594	.405	.375	.375	.041	.165	.004	17,100	1.10
7/16	07	L07	.4375-20UNJF-3B	16	.733	.693	.473	.438	.438	.048	.193	.005	23,200	1.60
1/2	08	L08	.5000-20UNJF-3B	20	.833	.793	.535	.500	.500	.055	.220	.005	30,900	2.80
9/16	09	L09	.5625-18UNJF-3B	22	.929	.889	.597	.562	.562	.062	.248	.005	39,200	3.80
5/8	10	L10	.6250-18UNJF-3B	24	1.030	.990	.660	.625	.625	.069	.275	.006	49,000	5.10
3/4	12	L12	.7500-16UNJF-3B	30	1.224	1.184	.785	.750	.750	.083	.330	.007	71,100	9.20
7/8	14	L14	.8750-14UNJF-3B	34	1.419	1.379	.910	.875	.875	.098	.385	.008	97,100	14.00
1	16	L16	1.0000-12UNJF-3B	38	1.620	1.570	1.035	1.000	1.000	.110	.440	.009	126,000	20.00
1 1/8	18	L18	1.1250-12UNJF-3B	44	1.822	1.772	1.160	1.125	1.125	.124	.495	.010	162,000	29.00
1 1/4	20	L20	1.2500-12UNJF-3B	48	2.022	1.972	1.285	1.250	1.250	.138	.550	.011	202,000	40.00
1 3/8	22	L22	1.3750-12UNJF-3B	52	2.221	2.171	1.410	1.375	1.375	.151	.605	.012	247,000	52.00
1 1/2	24	L24	1.5000-12UNJF-3B	56	2.423	2.373	1.535	1.500	1.500	.165	.660	.013	296,000	67.00

(a) MINIMUM BEARING AREA BASED ON A BEARING STRESS OF 115 KSI.

(b) AXIAL STRENGTH DETERMINED FROM FORMULA  $W_a = F_{tu}A$  WHERE A IS THE CROSS SECTIONAL AREA, IN SQUARE INCHES, BASED ON THE MAXIMUM PITCH DIAMETER OF BOLT THREAD,  $F_{tu}$  IS 180 KSI AND  $W_a$  IS THE AXIAL STRENGTH IN POUNDS.

MATERIAL: ALLOY STEEL, AMS-6304, AMS-6485, AND AMS-6487.

HARDNESS: ROCKWELL C48 MAX.

SURFACE TEXTURE: BEARING SURFACE 125/IN ACCORDANCE WITH ANSI (ASA) B46.1-1962.

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.

LUBRICANT: LUBRICANT APPROVED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION. LUBRICANTS, EXCEPT DRY FILM LUBRICANTS, SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN THE PROCUREMENT SPECIFICATION. FOR USAF APPLICATIONS, NUTS TREATED WITH DRY FILM LUBRICANTS SHALL NOT BE UTILIZED IN INTEGRAL FUEL TANKS.

THREADS: MIL-S-8879 BEFORE LUBRICATION.

WRENCHING ELEMENT: PER MS33787, DRIVERS PER MIL-W-8982.

PERPENDICULARITY: BEARING SURFACE SHALL BE NORMAL WITH PITCH DIAMETER OF THREAD WITHIN X WHEN CHECKED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

DIMENSIONS IN INCHES: DIMENSIONS APPLY BEFORE LUBRICATION.

DESIGN AND USAGE INFORMATION: THESE NUTS ARE DESIGNED TO BE USED WITH MS21134 BOLTS AND MS21206 WASHERS.

EXAMPLE OF PART NUMBERS:

MS21133-04 .2500-28 NUT, CADMIUM PLATED, SOLUBLE LUBRICANT.

MS21133-1.04 .2500-28 NUT, CADMIUM PLATED, DRY FILM LUBRICATED.

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

NAVY - AS	TITLE	MILITARY STANDARD
Other Code	NUT, SELF-LOCKING, STEEL, 180 KSI $F_{tu}$ , 480°F, FLANGED, MS33787 WRENCHING ELEMENT	MS21133
USAF-11		
ARMY-AV		
PROCUREMENT SPECIFICATION	SUPERSEDES	SHEET 1 OF 1
MIL-N-8085		

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

U.S. GOVERNMENT PRINTING OFFICE: 1973-714-542/3635

"Technical information is current as of the date of this document. For future coordination of changes to this document, draft circulation should be based on the information in the current document."

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

APPROVED 24 JAN 1972 REVISED

