

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDS SPECIFIED IN THE SOLICITATION MIL-N-25027

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

Form Approved
OMB No 0704-0188

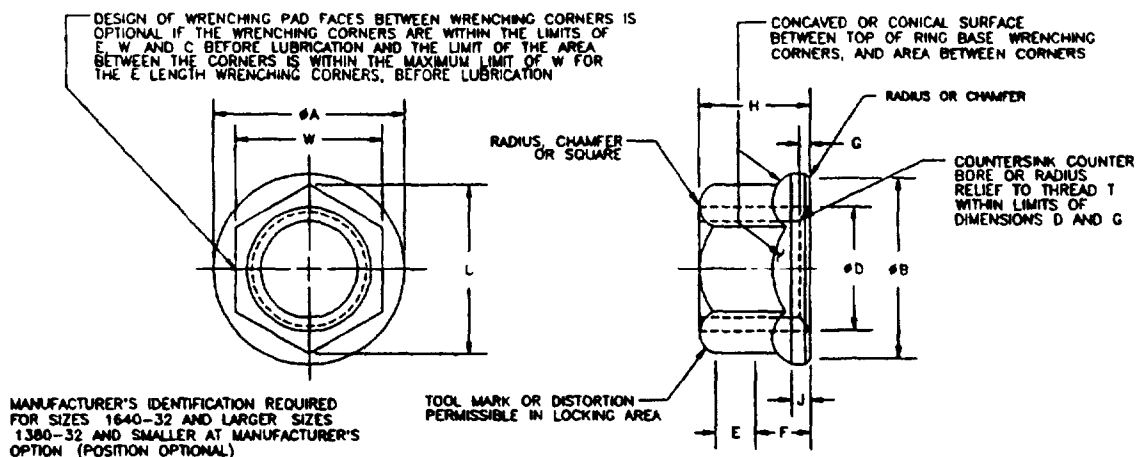


TABLE I

SIZE DASH NO	(a) THREAD T	#A MAX	#B MIN	C MIN	#D		(d) E MIN	(e) F MIN	G	
					MAX	MIN			MAX	MIN
-02	086-56UNJC-38	167	137	138	106	086	045	019	021	004
-04	1120-40UNJC-38	206	176	171	142	112	050	028	027	005
-06	1380-32UNJC-38	244	214	207	168	138	055	039		
-08	1640-32UNJC-38	290	260	244	194	164	060	041	031	006
-3	1900-32UNJC-38	330	290	277	220	190	065	043		
-4	2500-28UNJC-38	420	386	347	386	250	090	057	036	007
-5	3125-24UNJC-38	520	482	419	482	312	120	077		
-6	3750-24UNJC-38	620	575	491	575	375	125	089	042	008

SIZE DASH NO	(M) H		J MIN	(c) W ACROSS FLATS		(b) X	(g) AXIAL STRENGTH LB MIN	WEIGHT LB/100 MAX	(f) WRENCHING TORQUE TEST VALUES IN LB MIN
	MAX	MIN		MAX	MIN				
-02	100	080	010	127	122	0025	880	020	5
-04	125	103		158	150		1,110	050	10
-06	141	115		190	181		1,670	080	20
-08	158	125	015	221	213	003	2,490	150	30
-3	188	154		252	243		3,470	180	60
-4	219	204		316	304		6,200	350	150
-5	266	251	023	378	367	004	9,820	600	330
-6	282	267	030	440	430		15,200	800	530

- (a) THREADS BEFORE LUBRICATION PER MIL-S-8879
- (b) BEARING SURFACE SHALL BE SQUARE WITH PITCH DIA WITHIN X WHEN MEASURED IN ACCORDANCE WITH MIL-N-25027
- (c) DIMENSION ACROSS FLATS INCLUDES DEFORMATION OF SELF LOCKING DEVICE
- (d) MINIMUM LENGTH OF EACH WRENCHING CORNER
- (e) MINIMUM DISTANCE FROM THE WASHER FACE OF THE NUT TO THE BEGINNING OF THE MINIMUM LENGTH E OF EACH WRENCHING CORNER
- (f) NUT SHALL BE TESTED FOR WRENCHING TORQUE BY THE USE OF A BOX OR SOCKET WRENCH
- (g) TEST BOLTS SHALL BE 180,000 PSI MIN

(M) DENOTES CHANGES

INCH-POUND

PREPARING ACTIVITY DLA-IS CUSTODIANS ARMY-AS NAVY-AS AIR FORCE-99 DLA- REVIEW AR AS, MI USER ER PROJECT NUMBER 5310-2038 DISTRIBUTION STATEMENT	MILITARY SPECIFICATION SHEET TITLE NUT, SELF-LOCKING, 450°F, REDUCED HEXAGON, REDUCED HEIGHT, RING BASE, NON-CORROSION RESISTANT STEEL	SPECIFICATION SHEET NUMBER MS21042 6 JAN 95 REV M SUPERSEDING MS21042 L 18 OCT 93 (SEE NOTE 4) AMSC- N/A FSC 5310
A. Approved for public release distribution is unlimited		Page 1 of 2

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE
DEPARTMENT OF DEFENSE

INTERCHANGEABILITY TABLE												SUBSTITUTIVE PART NUMBERS	
CANCELLED AND INACTIVATED PART NUMBERS													
AN363	AN364	AN365	MS20364	MS20365	MS21040	NAS678	NAS1021	NAS1022	NAS1291				
---	---	---	---	---	---	---	---	---	---	X02	MS21042	02	
---	---	---	---	---	---	---	---	---	---	-02	MS21042	L02	
---	---	-440C	---	-440C	-04	X04W, X04	AX04	---	---	X04	MS21042	-04	
---	---	---	---	---	L04	A04	---	A04	---	-04	MS21042	L04	
---	---	-448C	---	---	---	---	---	---	---	---	NONE		
-632	-632C	-632C	-632C	-632C	-06	X06W, X06	AX06	---	AX06	---	X06	MS21042	-06
---	-840C	-840C	---	---	---	---	---	---	---	---	NONE		
---	---	---	---	---	L06	A06	---	A06	---	A06	---	-06	MS21042 L06
-832C	-832C	-832C	-832C	-832C	-08	X08W, X08	AX08	---	AX08	---	X08	MS21042	08
---	---	---	---	---	L08	A08	---	A08	---	A08	---	-08	MS21042 L08
---	-836C	-836C	---	---	---	---	---	---	---	---	NONE		
---	---	-1024C	---	---	---	---	---	---	---	---	NONE		
-1032	-1032C	-1032C	-1032C	-1032C	-3	X3W, X3	AX3	---	AX3	---	X3	MS21042	-3
-420	---	-420C	---	---	---	---	---	---	---	---	NONE		
---	---	---	---	---	L3	A3	---	A3	---	A3	---	-3	MS21042 L3
-428	-428C	-428C	-428C	-428C	-4	X4W, X4	AX4	---	AX4	---	X4	MS21042	-4
---	---	---	---	---	L4	A4	---	A4	---	A4	---	-4	MS21042 L4
-518	---	-518C	---	---	---	---	---	---	---	---	NONE		
-524	-524C	-524C	-524C	-524C	-5	X5	AX5	---	AX5	---	X5	MS21042	-5
---	---	---	---	---	L5	A5	---	A5	---	A5	---	-5	MS21042 L5
-616	---	-616C	---	---	---	---	---	---	---	---	NONE		
-624	-624C	-624C	-624C	-624C	-6	X6	AX6	---	AX6	---	X6	MS21042	-6
---	---	---	---	---	L6	A6	---	A6	---	A6	---	-6	MS21042 L6
---	---	---	---	---	-7	---	---	---	---	---	NONE		
---	---	---	---	---	L7	---	---	---	---	---	NONE		
---	-720C	---	-720C	---	---	---	---	AX7	A7	---	---	SEE MS21245	
---	-820C	---	-820C	---	---	---	---	AX8	A8	---	---	SEE MS21245	
---	-918C	---	-918C	---	---	---	---	AX9	A9	---	---	SEE MS21245	
---	-1018C	---	-1018C	---	---	---	---	AX10	A10	---	---	SEE MS21245	
---	-1218C	---	-1218C	---	---	---	---	AX12	A12	---	---	SEE MS21245	
---	-1414C	---	-1414C	---	---	---	---	AX14	A14	---	---	SEE MS21245	
---	-1614C	---	-1614C	---	---	---	---	---	---	---	NONE		
---	-1812C	---	-1812C	---	---	---	---	AX18	A18	---	---	SEE MS21245	
---	-2012C	---	-2012C	---	---	---	---	AX20	A20	---	---	SEE MS21245	

REQUIREMENTS

1. **MATERIAL:** STEEL UNS G10350 (ANSI C1035) PER AMS 5080 QQ-S-700
 UNS G10420 (ANSI C1042)
 UNS G10500 (ANSI 1050) PER AMS 5085
 UNS G40270 (ANSI 4027) PER ASTM A322
 UNS G40370 (ANSI 4037) PER ASTM A322, A331 A519 A547 AMS 6300
 UNS G86300 (ANSI 8630) PER AMS 6280, 6355 6530 6550
 UNS G87400 (ANSI 8740) PER AMS 6322, 6323 6325 6327 6358

2. **FINISH:** PLATING, CADMIUM PLATED IN ACCORDANCE WITH QQ-P-416 TYPE II CLASS 2
 DRY FILM LUBRICATED NUTS IN ACCORDANCE WITH QQ-P-416 TYPE AND CLASS ARE OPTIONAL
 IF THE NUTS WILL MEET THE SALT SPRAY REQUIREMENTS OF QQ-P-416 TYPE II

3. **LUBRICANT:** DRY FILM OR NON-DRY FILM IN ACCORDANCE WITH MIL-N-25027 OTHER LUBRICANTS SHALL BE SOLUBLE IN
 THE CLEANER SPECIFIED IN PROCUREMENT SPECIFICATION

4. **HARDNESS:** 49 HRC MAX

5. **SURFACE TEXTURE:** SURFACE TEXTURE IN ACCORDANCE WITH ANSI/ASME B46.1 UNLESS OTHERWISE SPECIFIED THE SURFACE TEXTURE
 SHALL NOT EXCEED 125 MICROMETERS

6. **PART NUMBER:** THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I
 LETTER L BEFORE FIRST DASH NUMBER DESIGNATES DRY FILM LUBRICATED NUTS

EXAMPLE OF PART NUMBERS MS21042L4= 2500-28 NUT, CADMIUM PLATED DRY FILM LUBRICATED
 MS21042-4= 2500-28 NUT CADMIUM PLATED NOT DRY FILM LUBRICATED

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