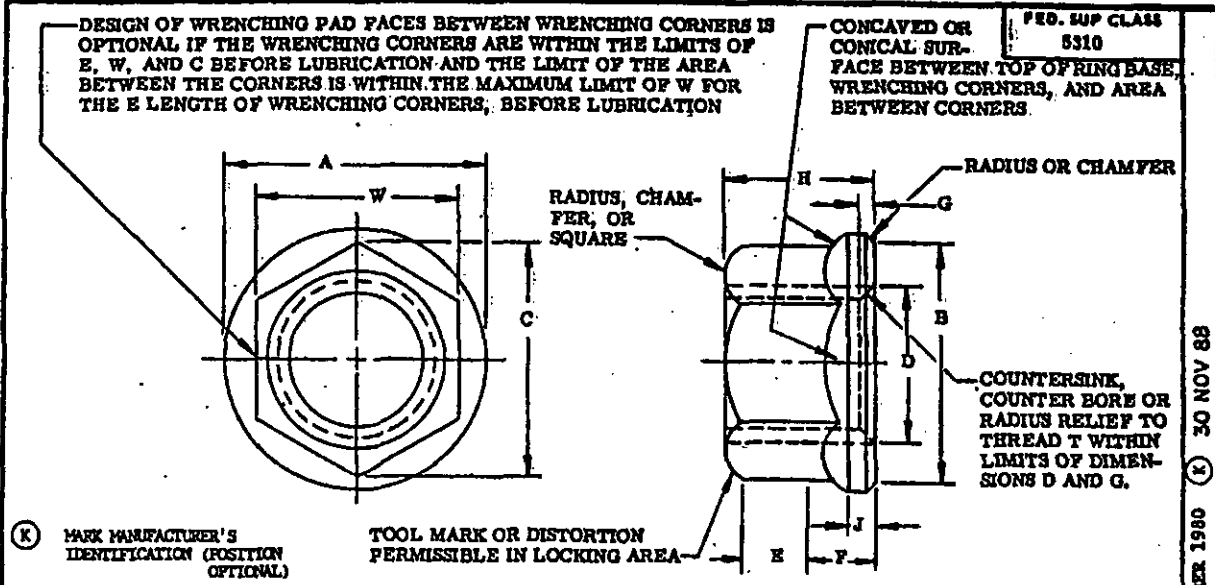


REVIEWER SYMBOLS:  
 NAVY - AS  
 DLA - IS  
 ARMY - AR, MI

\*Review/user information is carried on the left of this document. For future coordination of changes to this document, draft circulation should be based on the information in the current DODISS.

AMSC N/A  
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(K) MARK MANUFACTURER'S IDENTIFICATION (POSITION OPTIONAL)

TABLE I

SIZE DASH NO.	(a) THREAD T	A MAX. DIA.	B MIN. DIA.	C MIN.	D DIA.		(d) E MIN.	(e) F MIN.	G	
					MAX.	MIN.			MAX.	MIN.
-02	.086-56UNJC-3B	.167	.137	.138	.106	.086	.045	.019	.021	.004
-04	.1120-40UNJC-3B	.208	.176	.171	.142	.112	.050	.028	.027	.005
-06	.1380-32UNJC-3B	.244	.214	.207	.168	.138	.055	.039		
-08	.1640-32UNJC-3B	.290	.260	.244	.194	.164	.060	.041	.031	.006
- 3	.1900-32UNJF-3B	.330	.290	.277	.220	.190	.065	.043		
- 4	.2500-28UNJF-3B	.420	.386	.347	.280	.250	.090	.057	.036	.007
- 5	.3125-24UNJF-3B	.520	.482	.419	.342	.312	.120	.077		
- 6	.3750-24UNJF-3B	.620	.575	.491	.405	.375	.125	.089	.042	.008

SIZE DASH NO.	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	.660	.020	5
-04	.125	.103		.188	.150		1,110	.050	10
-06	.141	.115	.015	.190	.181	.003	1,670	.080	20
-08	.188	.125		.221	.213		2,490	.150	30
- 3	.219	.154	.019	.252	.243	.004	3,470	.180	60
- 4	.268	.204		.316	.304		6,200	.350	150
- 5	.288	.251	.023	.378	.367	9,820	.600	330	
- 6	.282	.267	.030	.440	.430	15,200	.800	530	

- (K) (a) THREADS BEFORE LUBRICATION PER MIL-S-8879. THREADS IN ACCORDANCE WITH MIL-S-7748 ARE ACCEPTABLE UNTIL 31 DECEMBER 1969.
- (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 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.

(K) 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 BIDS, OR REQUEST FOR PROPOSAL, EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.

D. A. NAVY AS Other Cust USAF - 99 ARMY - AV	INTERNATIONAL INTEREST	TITLE NUT, SELF-LOCKING, 450° F, REDUCED HEXAGON, REDUCED HEIGHT, RING BASE, NON-CORROSION RESISTANT STEEL	MILITARY STANDARD <b>MS21042</b>
PROCUREMENT SPECIFICATION MIL-N-25027		SUPERSEDES: AN303, AN304, AN365, MS20364, MS20365, MS21040, NAS 679 INPART, NAS 1021, INPART NAS 1022 INPART AND NAS 1291 INPART	SHEET 1 OF 2

APPROVED 24 SEP 59 REVISED 12 DEC 1969 (G) 14 JUN 71 (H) 15 MARCH 1978 (J) 31 OCTOBER 1980 (K) 30 NOV 88

FED. SUP CLASS  
5310

TABLE II

INTERCHANGEABILITY TABLE

CANCELLED AND INACTIVATED PART NUMBERS

SUBSTITUTIVE PART NUMBERS

AN363	AN364	AN365	MS20364	MS20365	MS21040	NAS 679	NAS 1021	NAS 1022	NAS 1291		
---	---	---	---	---	---	---	---	---	---	X02	MS21042 02
---	---	---	---	---	---	---	---	---	---	---	MS21042 L02
---	---	-440C	---	-440C	-04	X04W, X04	AX04	---	---	X04	MS21042 -04
---	---	---	---	---	L04	A04	---	A04	---	---	MS21042 L04
---	---	-448C	---	---	---	---	---	---	---	---	NONE
-632	-632C	-632C	-632C	-632C	-06	X06W, X06	AX06	---	AX06	---	MS21042 -06
---	-640C	-640C	---	---	---	---	---	---	---	---	NONE
---	---	---	---	---	L06	A06	---	A06	---	-06	MS21042 L06
-832C	-832C	-832C	-832C	-832C	-08	X08W, X08	AX08	---	AX08	---	MS21042 08
---	---	---	---	---	L08	A08	---	A08	---	-08	MS21042 L08
---	-836C	-836C	---	---	---	---	---	---	---	---	NONE
-1024	---	-1024C	---	---	---	---	---	---	---	---	NONE
-1032	-1032C	-1032C	-1032C	-1032C	-3	X3W, X3	AX3	---	---	---	MS21042 -3
-420	---	-420C	---	---	---	---	---	---	---	---	NONE
---	---	---	---	---	L3	A3	---	A3	---	-3	MS21042 L3
-428	-428C	-428C	-428C	-428C	-4	X4W, X4	AX4	---	---	---	MS21042 -4
---	---	---	---	---	L4	A4	---	A4	---	-4	MS21042 L4
-518	---	-518C	---	---	---	---	---	---	---	---	NONE
-524	-524C	-524C	-524C	-524C	-5	X5	AX5	---	---	---	MS21042 -5
---	---	---	---	---	L5	A5	---	A5	---	-5	MS21042 L5
-616	---	-616C	---	---	---	---	---	---	---	---	NONE
-624	-624C	-624C	-624C	-624C	-6	X6	AX6	---	---	---	MS21042 -6
---	---	---	---	---	L6	A6	---	A6	---	-6	MS21042 L6
---	---	---	---	---	-7	---	---	---	---	---	NAS679 X7
---	---	---	---	---	L7	---	---	---	---	---	NAS679 A7
---	-720C	---	-720C	---	---	---	---	AX7	A7	---	SEE MS21245
---	-820C	---	-820C	---	---	---	---	AX8	A8	---	SEE MS21245
---	-918C	---	-918C	---	---	---	---	AX9	A9	---	SEE MS21245
---	-1018C	---	-1018C	---	---	---	---	AX10	A10	---	SEE MS21245
---	-1216C	---	-1216C	---	---	---	---	AX12	A12	---	SEE MS21245
---	-1414C	---	-1414C	---	---	---	---	AX14	A14	---	SEE MS21245
---	-1614C	---	-1614C	---	---	---	---	---	---	---	NAS1022 A17
---	-1812C	---	-1812C	---	---	---	---	AX18	A18	---	SEE MS21245
---	-2012C	---	-2012C	---	---	---	---	AX20	A20	---	SEE MS21245

NOTES:

- (K) 1. MATERIAL: STEEL UNS G10350 (AISI C1035) PER AMS 5080, QQ-S-700  
 UNS G10420 (AISI C1042)  
 UNS G10500 (AISI 1050) PER AMS 5085  
 UNS G40270 (AISI 4027) PER ASTM A322  
 UNS G40370 (AISI 4037) PER ASTM A322, A311, A519, A547, AMS 6300  
 UNS G86300 (AISI 8630) PER AMS 6280, 6355, 6530, 6550  
 UNS G87400 (AISI 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. LUBRICANTS: DRY FILM OR NON-DRY FILM IN ACCORDANCE WITH MIL-N-25027. OTHER  
 LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN PROCUREMENT SPECIFICATION.  
 FOR USAF APPLICATIONS, NUTS TREATED WITH DRY FILM LUBRICANTS SHALL NOT BE UTILIZED  
 IN INTERNAL FUEL TANKS.
- (K) 4. HARDNESS: 49 HRC MAX
- (K) 5. REMOVE ALL SHARP EDGES AND BURRS.
- 6. SURFACE TEXTURE IN ACCORDANCE WITH ASSY B46.1
- 7. UNLESS OTHERWISE SPECIFIED THE SURFACE ROUGHNESS SHALL NOT EXCEED 125 MICROINCHES.
- 8. DIMENSIONS IN INCHES.
- 9. THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF MS33588.
- 10. 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.

\* CERTAIN PROVISIONS (THE DIMENSIONS ACROSS THE WRENCHING FLATS) OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT ABCC AIR STD 17/2 WHEN REVISION, OR CANCELLATION OF THIS STANDARD IS PROPOSED WHICH WILL AFFECT OR VIOLATE THE INTERNATIONAL AGREEMENT CONCERNED. THE PREPARING ACTIVITY WILL TAKE APPROPRIATE RECONCILIATION ACTION THROUGH INTERNATIONAL STANDARDIZATION CHANNELS, INCLUDING DEPARTMENTAL STANDARDIZATION OFFICES, IF REQUIRED

(K) BIDS SHALL BE SOLICITED ONLY FROM THE MANUFACTURERS OR DISTRIBUTORS LISTED ON OPL-25027

P.A. NAVY-AS Other Cust USAF-99 ARMY-AV	INTERNA- TIONAL INTEREST	TITLE NUT, SELF-LOCKING, 450°F, REDUCED HEXAGON, REDUCED HEIGHT, RING BASE, NON-CORROSION RESISTANT STEEL.	MILITARY STANDARD
			MS21042
*PROCUREMENT SPECIFICATION MIL-N-25027		SUPERSEDES: AN363, AN364, AN365, MS20364, MS20365, MS21040, NAS679 IN PART NAS 1021, IN PART NAS1022 AND NAS1291 IN PART	SHEET 2 OF 2

USER SYMBOLS: ARMY - ER  
 REVIEWER SYMBOLS: NAVY - AS  
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APPROVED 24 Sep 99  
 REVISED (K) FOR CHANGES SEE SHEET 2