

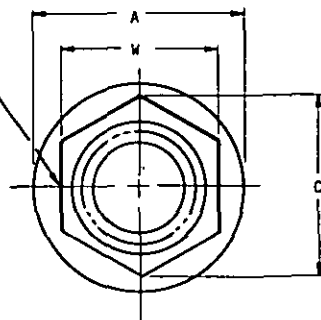
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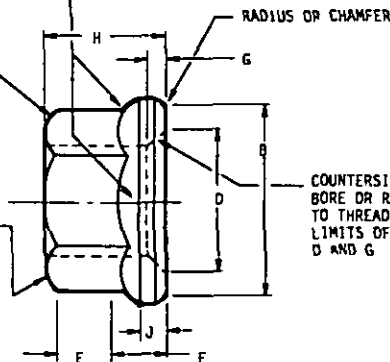
DESIGN OF WRENCHING PAD FACES BETWEEN WRENCHING CORNERS ARE OPTIONAL IF THE WRENCHING CORNERS ARE WITHIN THE LIMITS OF E, W, AND C, AND THE LIMIT OF THE AREA BETWEEN THE CORNERS IS WITHIN THE MAXIMUM LIMIT OF W FOR THE "E" LENGTH OF WRENCHING CORNERS



CONCAVED OR CONICAL SURFACE BETWEEN TOP OF RING BASE, WRENCHING CORNERS, AND AREA BETWEEN CORNERS

RADIUS, CHAMFER, OR SQUARE

TOOL MARK OR DISTORTION PERMISSIBLE IN LOCKING AREA



COUNTERSINK, COUNTER BORE OR RADIUS RELIEF TO THREAD WITHIN THE LIMITS OF DIMENSIONS D AND G

TABLE 1

SIZE DASH NO.	(a) THREAD	A MAX	B MIN	C MIN	D		(d) E MIN	(e) F MIN	G		H		J MIN	(c) W		(b) X	(f) WRENCHING TORQUE IN LBS	(g) AXIAL STRENGTH LBS MIN	WT LBS/100 MAX
					MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN		MAX	MIN				
04	4-40UNC-3B	.206	.176	.171	.142	.112	.050	.028	.027	.005	.125	.103	.010	.158	.150	.003	11	755	.050
06	6-32UNC-3B	.244	.214	.207	.168	.138	.055	.039			.141	.115		.190	.181		17	1,136	.080
08	8-32UNC-3B	.290	.260	.244	.194	.164	.060	.041	.031	.006		.125	.015	.221	.213		23	1,720	.150
3	10-32UNJF-3B	.330	.290	.277	.220	.190	.065	.043			.188	.154	.015	.252	.243	.004	46	2,460	.180
4	1/4-28UNJF-3B	.420	.386	.347	.280	.250	.090	.057	.036	.007	.219	.204	.019	.316	.304		115	4,580	.350
5	5/16-24UNJF-3B	.520	.482	.419	.342	.312	.120	.077	.042	.008	.266	.251	.023	.378	.367		260	7,390	.600
6	3/8-24UNJF-3B	.620	.575	.491	.405	.375	.125	.089			.282	.267	.030	.440	.430		450	11,450	.800

(a) THREADS PER MIL-S-8879.

(b) BEARING SURFACE SHALL BE SQUARE WITH PITCH DIAMETER WITHIN "X" WHEN MEASURED IN ACCORDANCE WITH MIL-N-25027.

(c) DIMENSIONS ACROSS FLATS INCLUDE DEFORMATION OF SELF-LOCKING ELEMENT.

(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 "E" OF EACH WRENCHING CORNER.

(f) NUTS SHALL BE TESTED FOR WRENCHING TORQUE BY USING A BOX OR SOCKET WRENCH.

(g) TEST BOLTS SHALL BE 180,000 PSI MINIMUM.

REQUIREMENTS:

1. MATERIAL: CORROSION AND HEAT RESISTANT STEEL PER AMS 5525 (A286) OR AMS 5735.
2. PLATING: SILVER PLATE ALL THREADED SURFACES ON NUT PER AMS 2410. THREADS SHALL SHOW COMPLETE COVERAGE. SILVER PLATING ON ALL OTHER SURFACES OPTIONAL. TARNISHING OR DISCOLORATION OF SILVER NOT CAUSE FOR REJECTION.
3. LUBRICANTS: LUBRICANT FOR SILVER PLATED NUTS SHALL BE SOLUBLE IN CLEANER SPECIFIED IN MIL-N-25027.
4. MAGNETIC PERMEABILITY: SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH = 200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER MIL-I-17214.
5. SURFACE TEXTURE: SURFACE ROUGHNESS SHALL BE NOT GREATER THAN 125 MICROINCHES IN ACCORDANCE WITH ANSI B46.1.

(D) DENOTES CHANGES

P.A. NAVY — AS Other Cust USAF-11 Army-AV	TITLE NUT, SELF-LOCKING, 800°F, REDUCED HEXAGON, REDUCED HEIGHT, RING BASE, CORROSION RESISTANT STEEL	MILITARY STANDARD MS 21043
PROCUREMENT SPECIFICATION MIL-N-25027	SUPERSEDES: NAS 679 IN PART, NAS 1021 IN PART, NAS 1022 IN PART, NAS 1291 IN PART	SHEET 1 OF 3

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FED. SUP CLASS
5310

NOTES:

1. REMOVE ALL SHARP EDGES AND BURRS.
2. DIMENSIONS IN INCHES.
3. DESIGN AND USAGE LIMITATIONS SHALL BE IN ACCORDANCE WITH MS33588.
4. INTERCHANGEABILITY RELATION: MS21043 NUTS CAN UNIVERSALLY REPLACE NAS 679, NAS 1021, NAS 1022 AND NAS 1291 NUTS WITH SIMILAR DIMENSIONS, MATERIAL AND FINISH, BUT THE NAS PART NUMBERS CANNOT REPLACE THE MS21043 PART NUMBERS (SEE TABLE II).
5. EXAMPLE OF PART NUMBER

MS21043 - 4 = 1/4-28 NUT, SILVER PLATED

└── PLATING - NO CODE DENOTES SILVER PLATE

└── SIZE DASH NUMBER

└── BASIC MS NUMBER

6. CERTAIN PROVISIONS (THE DIMENSIONS ACROSS THE WRENCHING FLATS) OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT ARCC AIR STD 17/2. WHEN REVISION OR CANCELLATION OF THIS STANDARD IS PROPOSED, THE DEPARTMENTAL CUSTODIAN WILL INFORM THEIR RESPECTIVE DEPARTMENTAL STANDARDIZATION OFFICE SO THAT APPROPRIATE ACTION MAY BE TAKEN RESPECTING THE INTERNATIONAL AGREEMENT CONCERNED.
7. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
8. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

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APPROVED 29 NOV 85 REVISED (D) FOR CHANGES SEE SHEETS 1 AND 2

P.A. NAVY — AS Other Cust USAF - 11 Army - AV	TITLE NUT, SELF-LOCKING, 800°F, REDUCED HEXAGON, REDUCED HEIGHT, RING BASE, CORROSION RESISTANT STEEL	MILITARY STANDARD MS 21043	
PROCUREMENT SPECIFICATION MIL-N-25027	SUPERSEDES: NAS 679 IN PART, NAS 1021 IN PART, NAS 1022 IN PART, NAS 1291 IN PART	SHEET 2 OF 3	

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TABLE II				
INTERCHANGEABILITY TABLE				
CANCELLED AND INACTIVATED PART NUMBERS				SUBSTITUTIVE PART NUMBERS
NAS 679	NAS 1021	NAS 1022	NAS 1291	
-	-	-	C02	NONE
C04	C04	-	C04	MS21043-04
C06	C06	C06	C06	MS21043-06
C08	C08	C08	C08	MS21043-08
C3	C3	C3	C3	MS21043-3
C4	C4	C4	C4	MS21043-4
C5	C5	C5	C5	MS21043-5
C6	C6	C6	C6	MS21043-6
C7	-	C7	C7	NONE
-	C7	-	-	SEE MS21046
-	-	C8	C8	NONE
-	C8	-	-	SEE MS21046
-	-	C9	C9	NONE
-	C9	-	-	SEE MS21046
-	-	C10	C10	NONE
-	C10	-	-	SEE MS21046
-	-	C12	-	NONE
-	C12	-	-	SEE MS21046
-	-	C14	-	NONE
-	C14	-	-	SEE MS21046
-	-	C16	-	NONE
-	C16	-	-	SEE MS21046
-	C17	C17	-	NONE
-	-	C18	-	NONE
-	C18	-	-	SEE MS21046
-	-	C20	-	NONE
-	C20	-	-	SEE MS21046

P.A.
NAVY — AS
Other Cust
USAF — 11
Army — AV

TITLE

NUT, SELF-LOCKING, 800°F, REDUCED HEXAGON, REDUCED HEIGHT,
RING BASE, CORROSION RESISTANT STEEL

MILITARY STANDARD

MS 21043

PROCUREMENT SPECIFICATION
MIL-N-25027

SUPERSEDES: NAS 679 IN PART, NAS 1021 IN PART, NAS 1022 IN PART,
NAS 1291 IN PART

SHEET 3 OF 3

DD FORM 672-1 (Coordinated)
1 MAR 72

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.