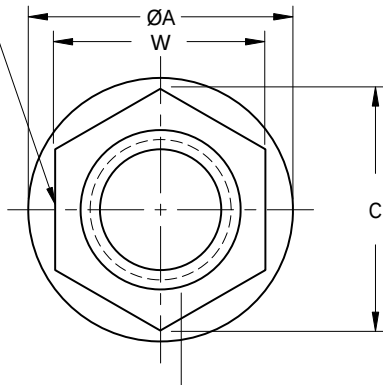


FED. SUPPLY CLASS

5310

DESIGN OF WRENCHING PAD FACES BETWEEN WRENCHING CORNERS IS 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

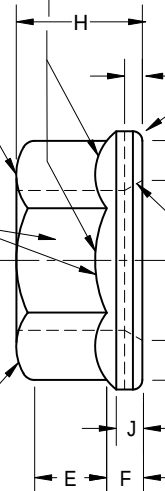
CONCAVED OR CONICAL SURFACE BETWEEN TOP OF RING BASE, WRENCHING CORNERS, AND AREA BETWEEN CORNERS



RADIUS, CHAMFER OR SQUARE

/18/

TOOL MARK OR DISTORTION PERMISSIBLE IN LOCKING AREA



RADIUS OR CHAMFER

COUNTERSINK, COUNTERBORE, OR RADIUS RELIEF TO THREAD WITHIN THE LIMITS OF DIMENSIONS ØD & G

TABLE I – DIMENSIONS

SIZE DASH NO.	THREAD /3/	ØA MAX	ØB MIN	C MIN	ØD		E MIN /6/	F MIN /7/	G		H		J MIN	W /5/		X /4/	WRENCHING TORQUE IN-LBF /8/	AXIAL STRENGTH LBF MIN /9/	WT LBS/100 MAX
					MAX	MIN			MAX	MIN	MAX	MIN		MAX	MIN				
04	.1120-40 UNJC-3B	.206	.176	.171	.142	.112	.050	.028	.027	.005	.125	.103	.010	.158	.150	.003	11	755	.050
06	.1380-32 UNJC-3B	.244	.214	.207	.168	.138	.055	.039	.031	.006	.141	.115	.010	.190	.181	.003	17	1,136	.080
08	.1640-32 UNJC-3B	.290	.260	.244	.194	.164	.060	.041	.031	.006	.125	.103	.015	.221	.213	.003	23	1,720	.150
3	.1900-32 UNJF-3B	.330	.290	.277	.220	.190	.065	.043	.036	.007	.188	.154	.015	.252	.243	.003	46	2,460	.180
4	.2500-28 UNJF-3B	.420	.386	.347	.280	.250	.090	.057	.036	.007	.219	.204	.019	.316	.304	.003	115	4,580	.350
5	.3125-24 UNJF-3B	.520	.482	.419	.342	.312	.120	.077	.042	.008	.266	.251	.023	.378	.367	.004	260	7,390	.600
6	.3750-24 UNJF-3B	.620	.575	.491	.405	.375	.125	.089	.042	.008	.282	.267	.030	.440	.430	.004	450	11,450	.800

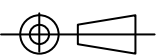
MATERIAL:

CRES A286 (UNS S66286) PER AMS5525, AMS5731, AMS5732, AMS5737, OR AMS5853.

③ COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS21043, REVISION E, AMENDMENT 1. PART NUMBERS REMAIN MS21043.

THIRD ANGLE PROJECTION



CUSTODIAN

NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION

3

PROCUREMENT SPECIFICATION

NASM25027

TITLE

NUT, SELF-LOCKING, 800 °F, REDUCED HEXAGON, REDUCED HEIGHT, RING BASE, CRES

③

CLASSIFICATION PART STANDARD

NASM21043

SHEET 1 OF 3



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HEAT TREATMENT:

DEVELOP BASIC MATERIAL PROPERTIES WITH CONTROLS PER AMS2759.

FINISH:

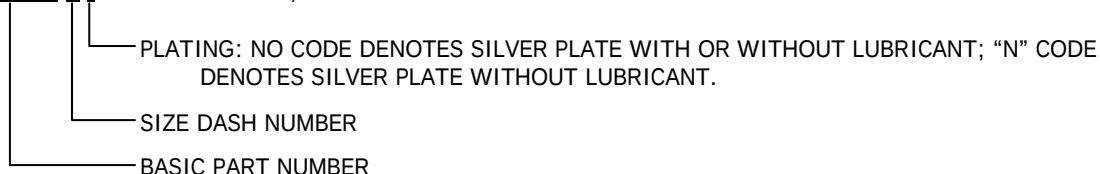
SILVER PLATE ALL THREADED SURFACES ON NUT PER AMS2410. THREADS SHALL SHOW COMPLETE COVERAGE. SILVER PLATING ON ALL OTHER SURFACES OPTIONAL. TARNISHING OR DISCOLORATION OF SILVER NOT CAUSE FOR REJECTION.

LUBRICATION:

LUBRICANT, IF USED, SHALL BE SOLUBLE IN CLEANER SPECIFIED IN NASM25027.
CODE "N" FOR NO LUBRICANT.

EXAMPLE OF PART NUMBER:

MS21043-4 = .2500-28 NUT, SILVER PLATED



NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- /3/ THREADS PER AS8879.
- /4/ BEARING SURFACE SHALL BE SQUARE WITH PITCH DIAMETER WITHIN "X" WHEN MEASURED IN ACCORDANCE WITH NASM25027.
- /5/ DIMENSIONS APPLY PRIOR TO DEFORMATION OF LOCKING FEATURE.
- /6/ MINIMUM LENGTH OF EACH WRENCHING CORNER.
- /7/ MINIMUM DISTANCE FROM THE WASHER FACE OF THE NUT TO THE BEGINNING OF THE MINIMUM LENGTH OF "E" OF EACH WRENCHING CORNER.
- /8/ NUTS SHALL BE TESTED FOR WRENCHING TORQUE BY USING A BOX OR SOCKET WRENCH.
- /9/ TEST BOLTS SHALL BE 180,000 PSI MINIMUM.
- (10) MAGNETIC PERMEABILITY: SHALL BE LESS THAN 2.0 (AIR=1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER ASTM A342/A342M, TEST METHOD 3.
- (11) SURFACE TEXTURE: SURFACE ROUGHNESS SHALL BE NOT GREATER THAN 125 MICROINCHES IN ACCORDANCE WITH ASME B46.1.

REVISION

3

③ COMPLETELY REVISED

NASM21043
SHEET 2



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