

FED. SUPPLY CLASS

5310

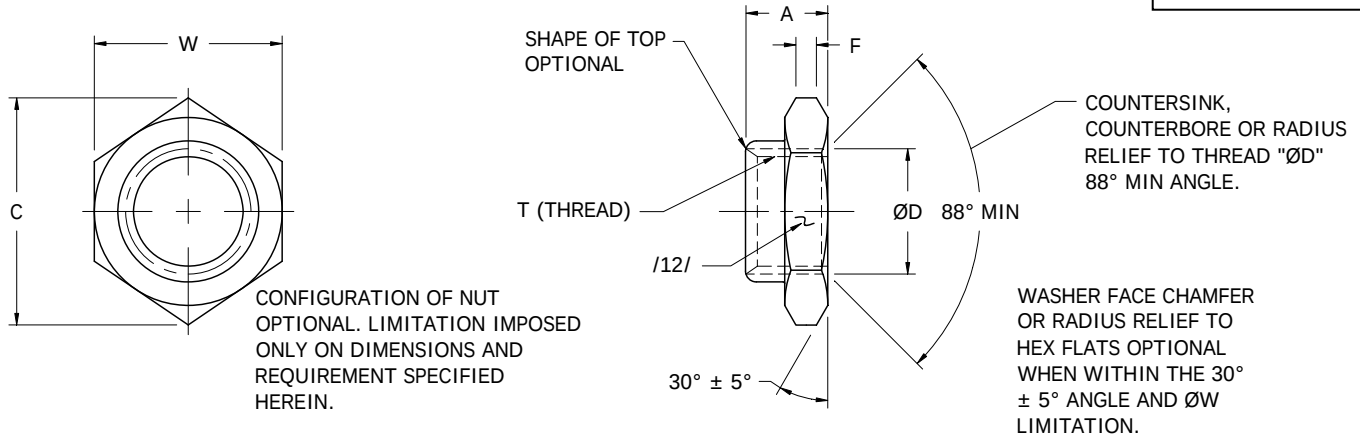


TABLE I – DIMENSIONS

DASH NUMBERS		T THREAD /11/ /13/	A	C	ØD		F	W		AXIAL STRENGTH LBF MIN	WEIGHT LB/100 MAX
NON-DRY LUBE	DRY LUBE										
			MAX	MIN	MAX	MIN	MIN	MAX	MIN		
7	L7	.4375-20 UNJF-3B	.328	.765	.478	.448	.109	.690	.679	10,300	1.93
8	L8	.5000-20 UNJF-3B	.328	.836	.551	.521	.109	.752	.741	13,750	2.18
9	L9	.5625-18 UNJF-3B	.375	.978	.614	.584	.125	.877	.865	17,400	3.41
10	L10	.6250-18 UNJF-3B	.407	1.050	.676	.646	.156	.940	.928	21,800	3.97
12	L12	.7500-16 UNJF-3B	.422	1.192	.807	.777	.172	1.064	1.052	31,800	5.51
14	L14	.8750-14 UNJF-3B	.485	1.405	.933	.903	.203	1.252	1.239	43,150	8.16
16	L16	1.0000-12 UNJF-3B	.578	1.619	1.059	1.029	.250	1.440	1.427	56,000	13.25
18	L18	1.1250-12 UNJF-3B	.672	1.832	1.186	1.156	.313	1.627	1.614	72,000	16.51
20	L20	1.2500-12 UNJF-3B	.766	2.046	1.310	1.280	.328	1.814	1.801	90,000	28.14
22	L22	1.3750-12 UNJF-3B	.821	2.259	1.467	1.437	.328	2.002	1.988	109,000	45.00
24	L24	1.5000-12 UNJF-3B	.884	2.473	1.588	1.558	.328	2.190	2.175	131,000	60.00

MATERIAL:

STEEL – UNS G10500 (AISI 1050) PER AMS5085.
 UNS G41300 (AISI 4130) PER AMS6350, 6351, 6360, 6361, 6362, 6370, 6371, 6373.
 UNS G41400 (AISI 4140) PER AMS6381, 6382, 6390 6395.
 UNS G43400 (AISI 4340) PER AMS6359, 6414, 6415, 6454.
 UNS G87400 (AISI 8740) PER AMS6322, 6323, 6325, 6327, 6358.

FINISH:

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

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS21245, REVISION D. PART NUMBERS REMAIN MS21245.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION NASM25027	TITLE NUT, SELF-LOCKING, HEXAGON, THIN, 450 °F, 80 KSI Ft _u	CLASSIFICATION PART STANDARD NASM21245

LUBRICATION:

LUBRICANT APPROVED IN ACCORDANCE WITH NASM25027. LUBRICANT, EXCEPT DRY FILM LUBRICANTS, SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN THE PROCUREMENT SPECIFICATION.

EXAMPLE OF PART NUMBER:

MS21245-8 = .5000-20 STEEL NUT, CADMIUM PLATED, NON-DRY FILM LUBRICATED
MS21245-L8 = .5000-20 STEEL NUT, CADMIUM PLATED, DRY FILM LUBRICATED

NOTES:

- (1) HARDNESS: 46 HRC MAXIMUM.
- (2) REMOVE ALL BURRS AND SHARP EDGES.
- (3) SURFACE ROUGHNESS: 125 MICROINCHES Ra PER ASME B46.1.
- (4) DIMENSIONS IN INCHES AND APPLY AFTER FINISH AND PRIOR TO THE APPLICATION OF LUBRICATION UNLESS OTHERWISE SPECIFIED.
- (5) DESIGN AND USAGE LIMITATIONS: THESE NUTS ARE DESIGNED FOR SHEAR APPLICATIONS AND ARE DESIGNED TO DEVELOP AN ULTIMATE TENSILE STRESS IN THE BOLT OF 80 KSI BASED ON THE CROSS SECTIONAL AREA AT THE BASIC PITCH DIAMETER OF THREAD. THESE NUTS ARE DESIGNED TO BE USED ON 3A EXTERNAL THREADS. THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF NASM33588. ~~ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL25027 SHALL BE USED.~~
- (6) INTERCHANGEABILITY RELATIONSHIP: MS21245 NUTS CAN UNIVERSALLY REPLACE THE ALL METAL AN364, MS20364, NAS1022 NUTS OF LIKE MATERIAL, PLATING AND THREAD SIZE BUT AN364, MS20364, NAS1022 NUTS CANNOT UNIVERSALLY REPLACE THE MS21245 NUTS.
- (7) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (8) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (9) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (10) ~~BIDS SHALL BE SOLICITED ONLY FROM THE MANUFACTURERS OR DISTRIBUTORS LISTED ON QPL-25027.~~
- /11/ THREADS IN ACCORDANCE WITH AS8879.
- /12/ NUT SHALL BE MARKED IN ACCORDANCE WITH NAS1347 WITH MANUFACTURER'S IDENTIFICATION.
- /13/ FOR SIZES SMALLER THAN .4375 SEE NASM21042.
- (14) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

① COMPLETELY REVISED

REVISION

1

NASM21245

SHEET 2



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