

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 DODISS 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

WITHOUT EYELET WITH EYELET

TABLE 1. DASH NUMBERS AND DIMENSIONS.

DASH NO	J/ THREAD SIZE	A MAX	B		C ± .005	ØD MIN	F MAX	H MAX	J ± .002	K + .005 - .000	ØP 2/	
			MAX	MIN							MAX	MIN
-04	1120-40UNC-3B	651	315	275	203		Ø70	153	406	Ø98	270	152
-06	1350-32UNC-3B	682	357	290	218		Ø70	171	437	Ø98	270	178
-08	1640-32UNC-3B	707	367	290	234	168	100	250	468	Ø98	270	204
-3	1900-32UNF-3B	739	416	290	250	194	100	250	500	Ø98	270	230
-4	2500-28UNF-3B	801	500	350	281	254	100	281	562	Ø98	330	290
-5	.3125-24UNF-3B	1.010	581	412	358	317	117	328	718	130	.392	.352

DASH NO	V 3/		V1 3/		AXIAL STRENGTH LBS MIN	WEIGHT LBS/100 MAX
	MAX	MIN	MAX	MIN		
-04	.140	.075	.080	.016	750	.25
-06	.140	.075	.080	.020	1130	.32
-08	.140	.075	.090	.025	1720	.36
-3	.140	.075	.080	.025	2460	.39
-4	.140	.085	.080	.027	4580	.88
-5	.160	.095	.105	.032	7390	1.10

1/ THREADS BEFORE LUBRICATION PER MIL-S-8879
 2/ MINIMUM "H" NOT SPECIFIED, LIMITED ONLY BY STRENGTH REQUIREMENTS
 3/ DASH NO 06 AND SMALLER MAY BE COUNTERSUNK OR RADIUSSED WITHIN "ØP"
 4/ "V" DIMENSION RANGE APPLIES TO "EYELET" CONFIGURATION
 V1 DIMENSION RANGE APPLIES TO "WITHOUT EYELET" CONFIGURATION
 5/ MANUFACTURER'S IDENTIFICATION PER MIL-C-1281, LOCATION OPTIONAL.
 6/ SHAPE WITHIN ENVELOPE OPTIONAL.

(H) DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTIVITY DLA-IS CUSTODIANS ARMY- AV NAVY- AS AIR FORCE- 99 DLA- REVIEW AR, ER, MI, OS, SH, 82 (H) USER PROJECT NUMBER 5310-2047 DISTRIBUTION STATEMENT	MILITARY SPECIFICATION SHEET TITLE NUT, SELF-LOCKING, PLATE, TWO LUG, FLOATING, REDUCED RIVET SPACING, LOW HEIGHT, STEEL, 125 KSI F _u , 450 F	SPECIFICATION SHEET NUMBER MS21075 28 MAR 95 REV H SUPERSEDING MS21075 G 1 FEB 94 (SEE NOTE 5) AMSC- N/A FSC 5310
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REQUIREMENTS

1. MATERIAL. STEEL GRADE 1035 (UNS G10350) PER AMS 5080 GRADE 1050 (UNS G10500) PER AMS 5085 GRADE 4130 (UNS C41300) PER AMS 6350 GRADE 1040 (UNS G10400) PER ASTM A682 GRADE 1042 (UNS C10420) PER ASTM A576 GRADE 4340 (UNS G43400) PER AMS F359 AND GRADE 8740 (UNS G8740) PER AMS 6322
2. FINISH. CADMIUM PLATE IN ACCORDANCE WITH 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 QQ-P-416 TYPE II
3. DIMENSIONING AND TOLERANCING. DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M
4. HARDNESS. 49 HRC MAX
5. THREADS. THREADS IN ACCORDANCE WITH MIL-S-8879
6. SURFACE TEXTURE. IN ACCORDANCE WITH ANSI/ASME B46.1 UNLESS OTHERWISE SPECIFIED THE SURFACE ROUGHNESS SHALL NOT EXCEED 125 MICRO INCHES.
7. LUBRICANT. DRY FILM LUBRICANT APPROVED IN ACCORDANCE WITH MIL-N-25027 OTHER LUBRICANTS SOLUBLE IN THE CLEANER SPECIFIED IN MIL-S-8802
8. EDGES. BREAK ALL SHARP EDGES AND REMOVE ALL BURRS
9. FLOAT. FLOAT OF THE NUT PORTION OF ASSEMBLY SHALL NOT BE LESS THAN .020 LATERALLY AND LONGITUDINALLY FROM CENTERED POSITION. NUT BODY SHALL BE CAPABLE OF ENGAGEMENT WITH A BOLT IN MAXIMUM MISALIGNED POSITION. MAXIMUM AXIAL FLOAT .020 INCHES FOR 190 AND SMALLER .030 FOR 250 AND LARGER. NUT MISALIGNMENT SHALL NOT EXCEED DIMENSION "B". THE NUT AND BASE PORTION OF THE ASSEMBLY SHALL FORM ONE INTEGRAL UNIT AND THE SURFACE ASSEMBLY SHALL PROVIDE A BEARING FOR THE NUT

10. PART NUMBER

MS21075 L 4 E = NUT SELF-LOCKING WITH DRY FILM LUBRICANT 2500-28

- UNF-38 WITH EYELETS
- "E" DENOTES WITH EYELETS, "N" DENOTES WITHOUT EYELETS
- ABSENCE OF "E" OR "N" DENOTES WITH/WITHOUT EYELETS (INACTIVE FOR NEW DESIGN)
- DENOTES THREAD SIZE DASH NUMBER
- "L" DENOTES DRY FILM LUBE
- "-" DENOTES NON DRY FILM LUBE
- BASIC MILITARY STANDARD NUMBER

NOTES

1. DIMENSIONS IN INCHES
2. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS DOCUMENT AND THE REFERENCES CITED HEREIN THE TEXT OF THIS DOCUMENT SHALL TAKE PRECEDENCE
3. UNLESS OTHERWISE SPECIFIED ISSUES OF REFERENCED DOCUMENTS ARE THOSE IN EFFECT AT THE TIME OF SOLICITATION
4. DESIGN AND USAGE LIMITATIONS. THESE NUTS ARE DESIGNED TO DEVELOP THE TENSILE STRENGTH OF BOLTS AND SCREWS WITH AN ULTIMATE TENSILE STRENGTH OF 125 KSI BASED ON THE CROSS SECTIONAL AREA AT THE BASIC PITCH DIAMETER OF THE THREAD. THESE NUTS ARE DESIGNED TO BE USED ON 3A EXTERNAL THREADS. THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF MS33588. ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON OPL 25027 SHALL BE USED
5. MS21075 SUPERSEDES NAS 1068

INTERCHANGEABILITY RELATIONSHIP

MS21075 NUTS CAN UNIVERSALLY REPLACE NAS 1068 NUTS OF LIKE MATERIAL, THREAD SIZE, LUBRICANTS (DRY OR NON DRY FILM) AND RIVET SPACING, BUT NAS 1068 NUTS, CANNOT UNIVERSALLY REPLACE MS21075 NUTS

PREPARING ACTIVITY DLA-15 CUSTODIANS ARMY- AV NAVY- AS AIR FORCE- 99 DLA- REVIEW AR, ER, MI, OS, SH, 82 (H) USER PROJECT NUMBER 5310-2047	MILITARY SPECIFICATION SHEET TITLE NUT, SELF-LOCKING, PLATE, TWO LUG, FLOATING, REDUCED RIVET SPACING, LOW HEIGHT, STEEL, 125 KSI F _u , 450 F	SPECIFICATION SHEET NUMBER MS21075 28 MAR 85 REV H SUPERSEDING MS21075 G 1 FEB 84 (SEE NOTE 5) AMSC- N/A FSC 5310
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