

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

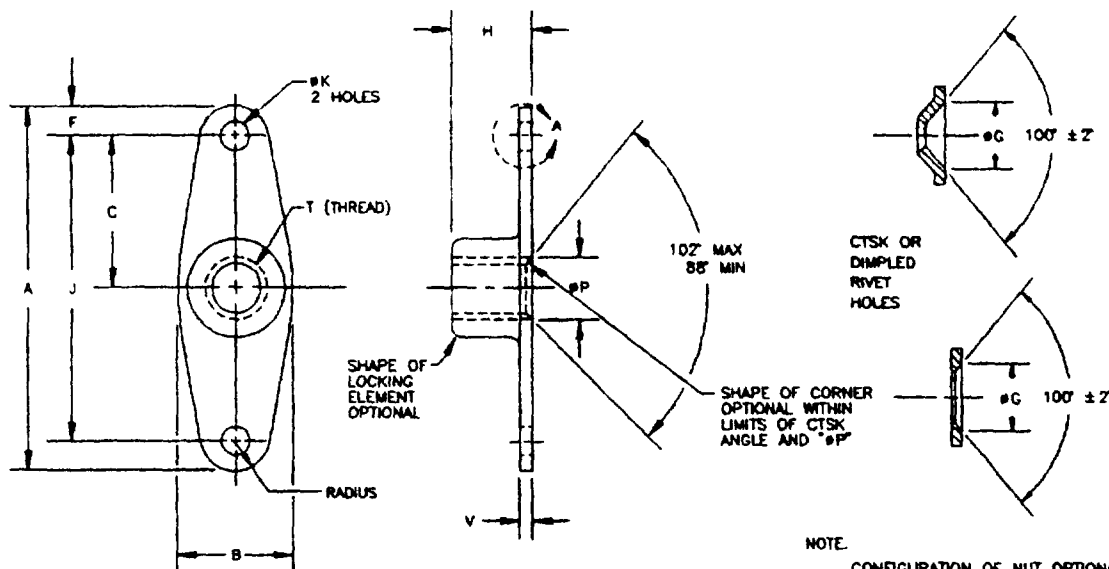


TABLE 1. DASH NUMBERS AND DIMENSIONS

DASH NUMBERS		T THREAD SIZES	A MAX	B		C ± .005	F MIN	#G ± .010	H		J ± .002	2/ #K + .005 - .000	#P		V MAX	AXIAL STRENGTH LBS/MIN	APPROX WEIGHT LBS/100
PLAIN HOLES	CTSK OR DIMPLED HOLES			MAX	MIN				MAX	MIN			MAX	MIN			
-04	-04K	112-40 UNJC-3B	984	406	375	344	115	200	218	133	688	098	151	112	075	750	80
-06	-06K	138-32 UNJC-3B	984	406	375	344	115	200	234	160	688	098	177	138	075	1130	85
-08	-08K	164-32 UNJC-3B	984	406	375	344	115	200	297	219	688	098	230	164	075	1,720	100
-3	-3K	190-32 UNJF-3B	984	406	375	344	115	200	312	234	688	098	230	180	075	2,460	100
-4	-4K	250-28 UNJF-3B	1296	518	484	500	115	200	375	240	1000	098	293	250	075	4,580	160
-5	-5K	312-24 UNJF-3B	1296	531	500	500	115	230	375	271	1000	130	356	312	075	7,390	190
-6	-6K	375-24 UNJF-3B	1296	641	609	500	115	230	453	318	1000	130	418	375	115	11,450	250
-7	--	437-20 UNJF-3B	1477	719	672	562	135	1/	489	435	1125	161	487	437	115	15,450	300
-8	--	500-20 UNJF-3B	1602	859	796	625	135	1/	609	575	1250	161	550	500	115	21,110	480
-9	--	562-18 UNJF-3B	1727	953	902	688	135	1/	656	623	1375	161	613	562	115	26,810	770
-10	--	625-16 UNJF-3B	1852	1016	964	750	135	1/	765	732	1500	161	676	625	115	34,130	860

1/ NO COUNTERSUNK OR DIMPLED RIVET TYPE AVAILABLE FOR SIZES 4375 THRU 625

2/ THE CENTER OF THE TAPPED HOLE SHALL NOT DEVIATE IN ANY DIRECTION FROM THE CENTER OF THE PLATE NUT AS DETERMINED BY THE RIVET HOLES BY MORE THAN .005

3/ DIMPLED RIVET HOLE TOLERANCE FOR "#K" IS + .015 - .000

(G) DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTIVITY DLA-1S

CUSTODIANS ARMY- AV NAVY- AS

AIR FORCE- 99 DLA-

REVIEW 82

USER CR, MI

PROJECT NUMBER 5310-1958

DISTRIBUTION STATEMENT

A. Approved for public release, distribution is unlimited

MILITARY SPECIFICATION SHEET

TITLE

NUT, SELF-LOCKING PLATE
TWO LUG, NON-METALLIC INSERT,
STEEL 125 KSI Flu, 250F

SPECIFICATION SHEET NUMBER

MS21078

15 FEB 94

REV G

SUPERSEDING

MS21078 F

13 AUG 80

AMSC-

N/A

FSC 5310

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DD Form 672, MAY 88

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REQUIREMENTS

- 1 MATERIAL NUT - CARBON STEEL GRADES 1110 (UNS 11100) 1040 (UNS G10400) PER ASTM A29, GRADE 1018 (UNS G10180) PER AMS 5069, GRADE 1137 (UNS G11370) PER AMS 5024, GRADE 11L37 (UNS G11374) PER AMS 5020, ALLOY STEEL GRADE 4130 (UNS G41300) PER AMS 6350, GRADES 4340 (UNS G43400) AND 8740 (UNS G87400) PER ASTM A29
INSERT - NON-METALLIC NYLON PER ASTM D4066 GROUP 1 CLASS 1 OR 2
- 2 FINISH CADMIUM PLATE IN ACCORDANCE WITH QQ-P-418 TYPE II CLASS 2
- 3 HARDNESS 35 HRC MAXIMUM
- 4 DIMENSIONING AND TOLERANCING DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M
- 5 VIBRATION LIFE MINIMUM VIBRATION LIFE SHALL BE THREE TIMES THE AVERAGE VIBRATION LIFE IN ACCORDANCE WITH PROCUREMENT SPECIFICATION
- 6 THREADS THREADS BEFORE LUBRICATION IN ACCORDANCE WITH MIL-S-8879
- 7 SURFACE TEXTURE SURFACE TEXTURE UNLESS OTHERWISE SPECIFIED SHALL NOT EXCEED 125 MICRONS IN ACCORDANCE WITH ANSI/ASME B46.1
- 8 LUBRICANT DRY FILM LUBRICANT APPROVED IN ACCORDANCE WITH MIL-N-25027 OTHER LUBRICANTS SOLUBLE IN THE CLEANER SPECIFIED IN MIL-S-8802
- 9 EDGES BREAK SHARP EDGES AND REMOVE ALL BURRS
- 10 EXAMPLE OF PART NUMBER THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE 1

EXAMPLE MS21078-4 = NUT SELF-LOCKING, PLATE, TWO LUG,
NON-METALLIC INSERT, STEEL, 125 KSI F_{tu},
250°F 250-28UNF-3B PLAIN HOLES
DASH NUMBER
BASIC MS NUMBER

NOTES

- 1 ALL DIMENSIONS ARE IN INCHES.
- 2 IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE
- 3 REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN
- 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 SECTION AREA AT THE BASIC ROOT DIAMETER OF THE THREADS. 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 QPL 25027 SHALL BE USED
- 5 MS21078 SUPERSEDES NAS366, NAS1023 IN PART

PREPARING ACTIVITY DLA-IS CUSTODIANS ARMY- AV NAVY- AS AIR FORCE- 99 DLA- REVIEW 82 USER CR, MI PROJECT NUMBER 5310-1958	MILITARY SPECIFICATION SHEET TITLE NUT SELF-LOCKING, PLATE, TWO LUG NON-METALLIC INSERT, STEEL, 125 KSI F _{tu} , 250°F	SPECIFICATION SHEET NUMBER MS21078 15 FEB 94 REV G SUPERSEDING MS21078 F 13 AUG 90 AMSC- N/A FSC 5310
DISTRIBUTION STATEMENT A. Approved for public release distribution is unlimited		Page 2 of 3

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INTERCHANGEABILITY TABLE

CANCELLED PART NUMBERS		SUBSTITUTIVE PART NUMBERS
---	NAS1023N04	MS21078-D4
---	NAS1023N04K	MS21078-D4K
AN366F832	NAS1023N08	MS21078-O8
AN366F832A	---	MS21078-O8
---	NAS1023N08K	MS21078-O8K
AN366F832	NAS1023N08	MS21078-O8
AN366F832A	---	MS21078-O8
---	NAS1023N08K	MS21078-O8K
AN366F1032	NAS1023N3	MS21078-3
AN366F1032A	---	MS21078-3
---	NAS1023N3K	MS21078-3K
AN366F428	NAS1023N4	MS21078-4
AN366F428A	---	MS21078-4
---	NAS1023N4K	MS21078-4K
AN366F524	NAS1023N5	MS21078-5
AN366F524A	---	MS21078-5
---	NAS1023N5K	MS21078-5K
AN366F624	NAS1023N6	MS21078-6
AN366F624A	---	MS21078-6
---	NAS1023N6K	MS21078-6K
---	NAS1023N7	MS21078-7
---	NAS1023N8	MS21078-8
---	NAS1023N9	MS21078-9
---	NAS1023N10	MS21078-10

PREPARING ACTIVITY DLA-IS

CUSTODIANS ARMY- AV NAVY- AS

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REVIEW 82

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TITLE

MUT, SELF-LOCKING, PLATE,
TWO LUG, NON-METALLIC INSERT,
STEEL, 125 KSI Flw, 250°F

SPECIFICATION SHEET NUMBER

MS21078

15 FEB 84
REV G

SUPERSEDING

MS21078 F

13 AUG 90

AMSC-

N/A

FSC 5310

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