

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

Form Approved
OMB No 0704-0188

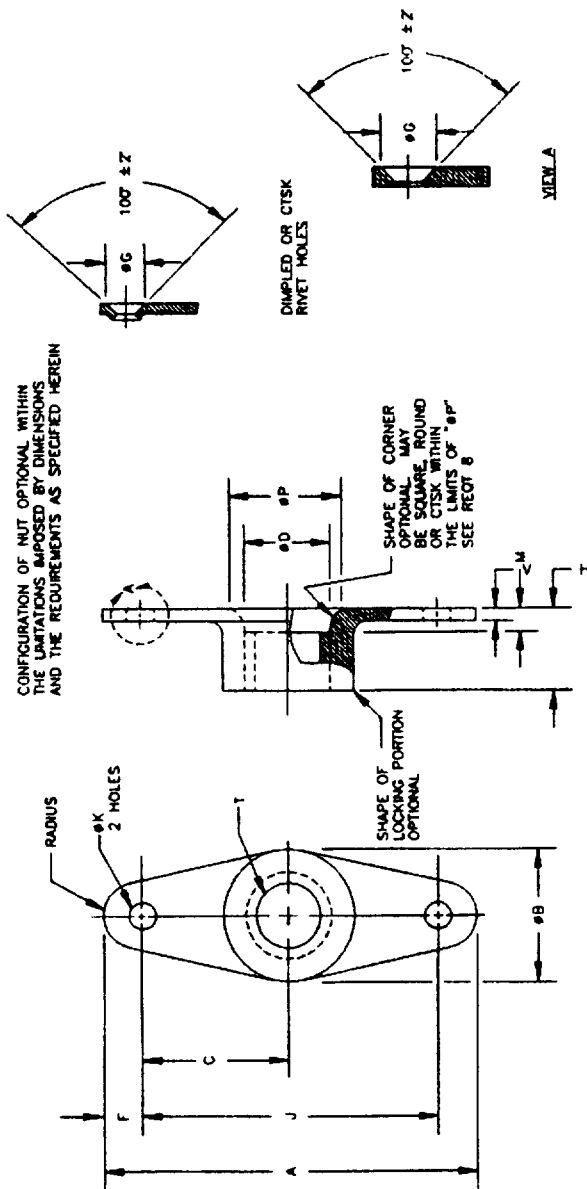


TABLE 1. DASH NUMBERS AND DIMENSIONS

PLAN PISTON HOLES		DASH NUMBERS		COUNTERSINK OR DRAINED PISTON HOLES		ANAL STRENGTH LBS/IN ²	WEIGHT LBS/100												
		NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT	NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT														
NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT	A MAX	AS MIN	C ± 005	6D MIN	F MIN	4G ± 010	M/L MAX	± 2/ ± 002	81 2/ ± 005 - 000	N MIN	± P MAX	Y MAX						
-04	L04	-04K	L04K	112-40 UNAC-38	948	260	195	344	---	100	200	143	688	098	---	188	047	750	14
-06	L06	-06K	L06K	138-32 UNAC-38	948	265	228	344	---	100	200	171	688	098	---	208	047	1,130	18
-08	L08	-08K	L08K	164-22 UNAC-38	948	297	277	344	188	100	200	230	688	098	062	248	047	1,720	28
-3	L3	-3K	L3K	190-32 UNAC-38	948	328	308	344	184	100	200	250	688	098	062	274	047	2,460	29
-4	L4	-4K	L4K	230-28 UNAC-38	1,180	414	373	500	254	100	200	281	1,000	098	062	344	062	4,380	53
-5	L5	-5K	L5K	3128-24 UNAC-38	1,792	505	485	500	317	125	230	378	1,000	130	062	417	045	7,380	80
-6	L6	---	---	375-24 UNAC-38	1,892	614	564	500	378	125	230	344	1,000	130	062	505	078	12,450	131
-7	L7	---	---	4378-20 UNAC-38	1,477	728	685	562	442	156	230	360	1,125	161	062	602	093	15,450	184
-8	L8	---	---	5002-20 UNAC-38	1,802	858	798	625	521	156	230	360	1,250	161	062	840	115	21,110	480
-9	L9	---	---	625-18 UNAC-38	1,177	913	902	780	584	156	230	438	1,375	161	062	703	115	26,810	770
-10	L10	---	---	625-18 UNAC-38	1,632	1,018	944	750	648	156	230	765	1,500	161	062	753	115	34,130	850

1/ MINIMUM .1" NOT SPECIFIED. LIMITED ONLY BY STRENGTH REQUIREMENTS OF SPECIFICATION.
2/ CENTER OF THE MARKED HOLE SHALL NOT DEVIATE IN ANY DIRECTION FROM THE CENTER OF THE
3/ PLATE NOT AS DETERMINED BY THE RIVET HOLES BY MORE THAN .005
4/ SAMPLED RIVET TOLERANCE FOR .64" IS +.015 - .000

(F) DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTMITY DLA-IS
CUSTODIANS ARMY- AV NAVY- AS
AIR FORCE- 11 DLA-

REVIEW 82
USER CR, MI
PROJECT NUMBER 5310-1944

DISTRIBUTION STATEMENT

A. Approved for public release distribution is unlimited

MILITARY SPECIFICATION SHEET

TITLE

NUT, SELF-LOCKING, PLATE, TWO-LUG,
LOW HEIGHT, STEEL, 125 KSI F_{tu}, 450F

SPECIFICATION SHEET NUMBER

MS21047

1 FEB 84
REV F

SUPERSEDING

MS21047 E 30 SEPT 87 (SEE NOTE 5)

AMSC-

N/A

FSC 5310

Page 1 of 3

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

REQUIREMENTS

- (F) 1. MATERIAL. CARBON STEEL, COMPOSITIONS 1035 (UNS G10350) 1040 (UNS G10400) 1050 (UNS G10500) IN ACCORDANCE WITH ASTM A827 OR QQ-S-700 COMPOSITION 1042 (UNS G10420) IN ACCORDANCE WITH ASTM A29 ALLOY STEEL, GRADES 4130 (UNS G41300) 4340 (UNS G43400) AND 8740 (UNS G87400) IN ACCORDANCE WITH ASTM A29
2. FINISH. CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416 TYPE II, CLASS 2. FOR DRY FILM LUBRICATED NUTS THE TYPE AND CLASS 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 BEFORE LUBRICATION IN ACCORDANCE WITH MIL-S-8879
6. SURFACE TEXTURE. SURFACE TEXTURE UNLESS OTHERWISE SPECIFIED SHALL NOT EXCEED 125 MICRONS, IN ACCORDANCE WITH ANSI/ASME B46.1
7. LUBRICANT. DRY FILM LUBRICANT APPROVED IN ACCORDANCE WITH MIL-N-25027 NON-DRY FILM LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN MIL-S-8802
- (F) 8. EDGES. Break all sharp edges and remove all burrs
9. COUNTERBORE/COUNTERSINK. ON SIZE 164 AND LARGER COUNTERBORE THREAD "D" DIAMETER X .062 DEEP MINIMUM THREAD RELIEF, ON SIZE 138 AND SMALLER COUNTERSINK TO "P" DIAMETER WITHIN THE LIMITS OF D, P AND M
10. PART NUMBER. THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE 1

EXAMPLE MS21047L4K

└── DASH NUMBER
└── BASIC MS NUMBER

MS21047L4K INDICATES NUT SELF-LOCKING, PLATE TWO LUG LOW HEIGHT, STEEL
125 KSI F_{tu} 450°F 250-28UNJF-3B, DRY FILM LUBRICANT
COUNTERSUNK OR DIMPLED HOLES

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 OPL 25027 SHALL BE USED
5. MS21047 SUPERSEDES AN362, AN366 NAS680 NAS1023 IN PART

PREPARING ACTIVITY DLA-15 CUSTODIANS ARMY- AV NAVY- AS AIR FORCE- 11 DLA- REVIEW 82 USER CR, MI PROJECT NUMBER 5310-1944	MILITARY SPECIFICATION SHEET TITLE NUT, SELF-LOCKING, PLATE TWO-LUG, LOW HEIGHT, STEEL, 125 KSI F _{tu} , 450°F	SPECIFICATION SHEET NUMBER MS21047 1 FEB 94 REV F SUPERSEDING MS21047 E 30 SEPT 87 (SEE NOTE 5) AMSC- N/A FSC 5310
DISTRIBUTION STATEMENT A. Approved for public release distribution is unlimited		Page 2 of 3

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

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 DUBSS 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

INTERCHANGEABILITY RELATIONSHIP

MS21047 NUTS CAN UNIVERSALLY REPLACE AN362 AN366 NAS680 AND NAS1023 NUTS OF LIKE MATERIAL THREAD SIZE LUBRICANT (DRY FILM OR NON-DRY FILM LUBRICANT) AND FASTENING METHOD (PLAIN RIVET HOLES DIMPLED OR COUNTERSUNK RIVET HOLES) BUT THESE AN362, AN366 NAS680, AND NAS1023 NUTS CANNOT UNIVERSALLY REPLACE MS21047 NUTS

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBER	SUBSTITUTIVE PART NUMBER	CANCELLED PART NUMBER	SUBSTITUTIVE PART NUMBER
NAS1023A04	MS21047L04	NAS1023A5	MS21047L5
NAS1023A04K	MS21047L04K	NAS1023A5K	MS21047L5K
NAS1023AX04	MS21047-04	NAS1023AX5	MS21047-5
NAS1023AX04K	MS21047-04K	NAS1023AX5K	MS21047-5K
NAS1023A06	MS21047L06	NAS1023A6	MS21047L6
NAS1023A06K	MS21047L06K	NAS1023AX6	MS21047-6
NAS1023AX06	MS21047-06	NAS1023A7	MS21047L7
NAS1023AX06K	MS21047-06K	NAS1023AX7	MS21047-7
NAS1023A08	MS21047L08	NAS1023A8	MS21047L8
NAS1023A08K	MS21047L08K	NAS1023AX8	MS21047-8
NAS1023AX08	MS21047-08	NAS1023A9	MS21047L9
NAS1023AX08K	MS21047-08K	NAS1023AX9	MS21047-9
NAS1023A3	MS21047L3	NAS1023A10	MS21047L10
NAS1023A3K	MS21047L3K	NAS1023AX10	MS21047-10
NAS1023AX3	MS21047-3	---	---
NAS1023AX3K	MS21047-3K	---	---
NAS1023A4	MS21047L4	---	---
NAS1023A4K	MS21047L4K	---	---
NAS1023AX4	MS21047-4	---	---
NAS1023AX4K	MS21047-4K	---	---

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBERS			SUBSTITUTIVE PART NUMBERS	CANCELLED PART NUMBERS			SUBSTITUTIVE PART NUMBERS
---	---	---	MS21047-04	---	AN366F1032B	---	MS21047L3
---	---	NAS680X04K	MS21047-04K	---	---	NAS680A3K	MS21047L3K
---	---	NAS680A04	MS21047L04	AN362F428	AN366F428	---	MS21047-4
---	---	NAS680A04K	MS21047L04K	---	AN366F428B	---	MS21047-4K
AN362F632	AN366F632	---	MS21047-06	---	---	NAS680X4K	MS21047L4
---	AN366F632B	---	MS21047-06K	AN362F428	AN366F428	NAS680A4	MS21047L4K
---	---	NAS680X06K	MS21047L06	---	AN366F428B	---	MS21047-5
AN362F632	AN366F632	NAS680A06	MS21047L06	---	---	NAS680A4K	MS21047L4K
---	AN366F632B	---	MS21047L06K	AN362F524	AN366F524	---	MS21047-5K
---	---	NAS680A06K	MS21047L08	---	AN366F524B	---	MS21047-6
AN362F632	AN366F632	---	MS21047-08	---	---	NAS680X3K	MS21047L5
---	AN366F632B	---	MS21047-08K	AN362F524	AN366F524	NAS680A5	MS21047L5K
---	---	NAS680X08K	MS21047L08	---	AN366F524B	---	MS21047-6K
AN362F632	AN366F632	NAS680A08	MS21047L08	---	---	NAS680A5K	MS21047L5K
---	AN366F632B	---	MS21047L08K	AN362F624	AN366F624	---	MS21047-6
---	---	NAS680A08K	MS21047-3	---	AN366F624B	NAS680A6	MS21047L6
AN362F1032	AN366F1032	---	MS21047-3K	AN362F624	---	---	MS21047L6K
---	AN366F1032B	NAS680X3K	MS21047L3	---	AN366F624B	NAS680A7	MS21047L7
AN362F1032	AN366F1032	NAS680A3		---	---		

PREPARING ACTIVITY DLA-15 CUSTODIANS ARMY- AV NAVY- AS AIR FORCE- 11 DLA-		MILITARY SPECIFICATION SHEET TITLE NUT, SELF-LOCKING, PLATE, TWO-LUG, LOW HEIGHT, STEEL 125 KSI FLU 450F		SPECIFICATION SHEET NUMBER MS21047 1 FEB 94 REV F	
REVIEW 82 USER CR, MI PROJECT NUMBER 5310-1944		SUPERSEDING MS21047 E 30 SEPT 87 (SEE NOTE 5)		AMSC- N/A FSC 5310	
DISTRIBUTION STATEMENT A. Approved for public release distribution is unlimited				Page 3 of 3	

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE