

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 DODDSS SPECIFIED IN THE SOLICITATION: MIL-N-25027

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

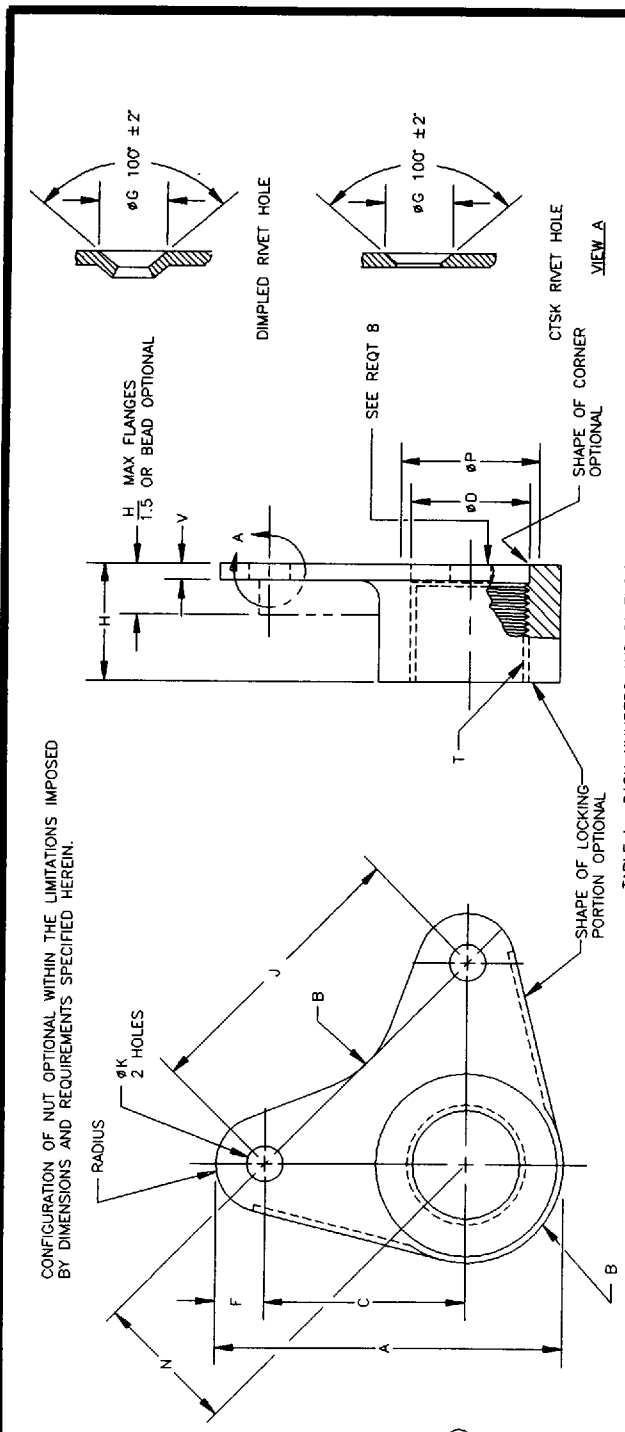


TABLE I DASH NUMBERS AND DIMENSIONS

DASH NUMBERS	PLAIN RIVET HOLES		COUNTERSUNK OR DIMPLED RIVET HOLES		T THREAD SIZES	A MAX	B MAX MIN	C ±.005 MIN	D MIN	E MIN	F MIN	G ±.010 MAX	H MAX	I/ H MAX	J ±.002	K +0.005 -0.000	N MAX	P MAX	V MAX	AXIAL STRENGTH LBS/MIN	WEIGHT LBS/100
	NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT	NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT																	
-02	L02	—	—	—	.086-56 UNJC-3B	.288	.092 .081	.125	—	.071	2/	110	.177	.066	120	.130	035	440	.07		
-03	L03	—	—	—	.089-48 UNJC-3B	.316	.125 .092	.138	—	.071	2/	125	.196	.066	130	.143	035	550	.09		
-04	L04	-04K	L04K	—	.112-40 UNJC-3B	.448	.156 .096	.203	—	.089	.200	143	.287	.098	215	.166	040	750	.11		
-06	L06	-06K	L06K	—	.138-32 UNJC-3B	.463	.156 .121	.218	—	.089	.200	171	.308	.098	232	.206	047	1,130	.14		
-08	L08	-08K	L08K	—	.164-32 UNJC-3B	.497	.163 .125	.234	.168	.100	.200	250	.331	.098	210	.248	047	1,720	.21		
-3	L3	-3K	L3K	—	.190-32 UNJF-3B	.526	.176 .156	.250	.194	.100	.200	250	.354	.098	215	.274	047	2,460	.26		
-4	L4	-4K	L4K	—	.250-28 UNJF-3B	.603	.222 .200	.281	.254	100	.200	281	.398	.098	233	.344	055	4,580	.45		
-5	L5	-5K	L5K	—	.3125-24 UNJF-3B	.757	.273 .250	.359	.317	.125	.230	328	.508	.130	280	.417	065	7,390	.80		
-6	L6	—	—	—	.375-24 UNJF-3B	.870	.331 .305	.414	.379	.125	.230	344	.585	.130	303	.505	075	11,450	1.92		

MINIMUM "H" NOT SPECIFIED, LIMITED ONLY BY STRENGTH REQUIREMENTS OF SPECIFICATION. SPACE WILL NOT PERMIT COUNTERSINK. DIMPLED RIVET HOLE TOLERANCE FOR "K" IS +.015 - .000.

(G) DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTIVITY DLA-IS CUSTODIANS. ARMY- AV NAVY- AS AIR FORCE- II DLA- REVIEW: 82, USER: CR, MI PROJECT NUMBER: 5310-1957 DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited.	MILITARY SPECIFICATION SHEET TITLE NUT, SELF-LOCKING, PLATE, CORNER, REDUCED RIVET SPACING, LOW HEIGHT, STEEL, 125KSI Ftu, 450F	SPECIFICATION SHEET NUMBER MS21073 1 FEB 94 REV 6 SUPERSEDING MS21073 F 30 SEPT 87 (SEE NOTE 5) AMSC- N/A FSC 5310
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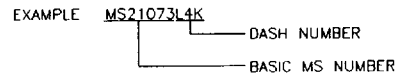
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Form Approved
OMB No 0704-0188

REQUIREMENTS

- 1 **MATERIAL**: CARBON STEEL, COMPOSITIONS 1035 (UNS G10350), 1040 (UNS G10400), AND 1050 (UNS G10500) IN ACCORDANCE WITH ASTM A827 OR QQ-S-700; 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 MICROINCHES, IN ACCORDANCE WITH ANSI/ASME B46.1
- 7 **LUBRICANT**: DRY FILM LUBRICANT APPROVED IN ACCORDANCE MIL-N-25027 NON-DRY FILM LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN MIL-S-8802
- 8 **EDGES**: BREAK ALL SHARP EDGES AND REMOVE ALL BURRS
- 9 **COUNTERBORE/COUNTERSINK**: ON SIZE 164 AND LARGER, THREAD RELIEF SHALL BE 062 MINIMUM, ON SIZE 138 AND SMALLER, COUNTERSINK OR RADIUS WITHIN "ØP"
- 10 **PART NUMBER**: THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I



MS21073L4K INDICATES NUT, SELF-LOCKING, PLATE CORNER, REDUCED RIVET SPACING, LOW HEIGHT, STEEL 125 KSI Ftu, 450° F, 250-28 UNJF-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 SECTIONAL 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 MS21073 SUPERSEDES NAS698

INTERCHANGEABILITY RELATIONSHIP

MS21073 NUTS CAN UNIVERSALLY REPLACE NAS698 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 NAS698 NUTS CANNOT UNIVERSALLY REPLACE MS21073 NUTS

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS	CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS
NAS698X02	MS21073-02	NAS698X3	MS21073-3
NAS698A02	MS21073L02	NAS698X3K	MS21073-3K
NAS698X03	MS21073-03	NAS698A3	MS21073L3
NAS698A03	MS21073L03	NAS698A3K	MS21073L3K
NAS698X04L	MS21073-04	NAS698X4	MS21073-4
NAS698X04LK	MS21073-04K	NAS698X4K	MS21073-4K
NAS698A04L	MS21073L04	NAS698A4	MS21073L4
NAS698A04LK	MS21073L04K	NAS698A4K	MS21073L4K
NAS698X06L	MS21073-06	NAS698X5	MS21073-5
NAS698X06LK	MS21073-06K	NAS698X5K	MS21073-5K
NAS698A06L	MS21073L06	NAS698A5	MS21073L5
NAS698A06LK	MS21073L06K	NAS698A5K	MS21073L5K
NAS698X08	MS21073-08	NAS698X6	MS21073-6
NAS698X08K	MS21073-08K	NAS698A6	MS21073L6
NAS698A08	MS21073L08		
NAS698A08K	MS21073L08K		

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		SUPERSEDING MS21073 F 30 SEPT 87 (SEE NOTE 5) AMSC- N/A FSC 5310
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