

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

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THE "ISSUE OF THE DODDS SPECIFIED IN THE SOLICITATION"

CONFIGURATION OF NUT OPTIONAL WITHIN THE LIMITATIONS IMPOSED BY DIMENSIONS AND REQUIREMENTS SPECIFIED HEREIN

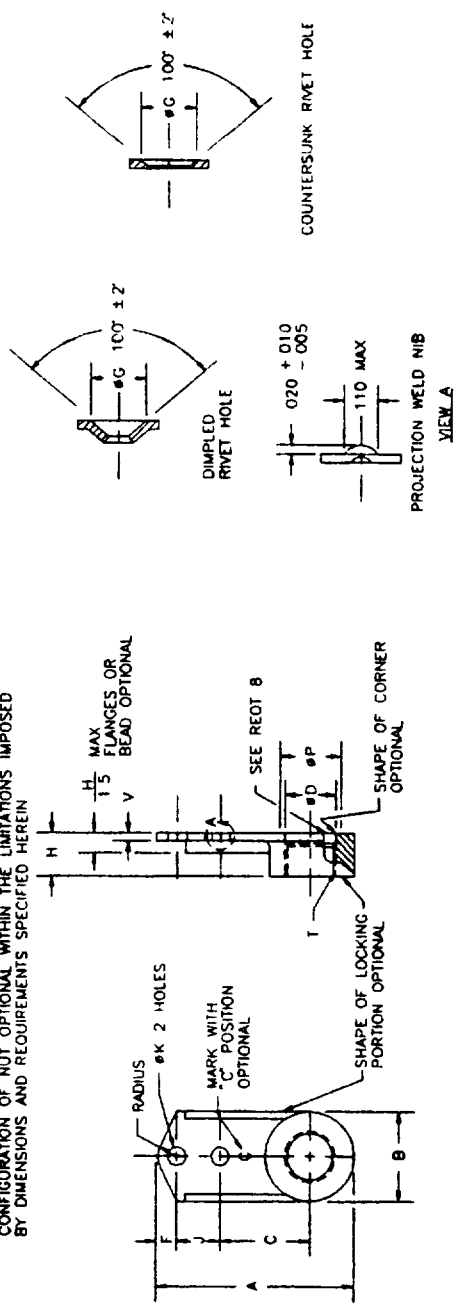


TABLE 1 DASH NUMBERS AND DIMENSIONS

DASH NUMBERS																			
450F					800F														
	CTSK OR DIMPLED HOLES	WELDING PROTECTION	PLAIN HOLES	CTSK OR DIMPLED HOLES	WELDING PROTECTION	T THREAD SIZES	A MAX	B MIN		C ± .005	Ø D MIN	F MIN	Ø G ± .010	H MAX	J ± .002	K ± .005	V MAX	AXIAL STRENGTH LBS./INCH	WEIGHT LBS/100
L02	-	L02W	-02	-	-02W	Ø86-56 UNJC-3B	507	164	140	125	-	.071	5/16	110	219	066	130	035	06
L03	-	L03W	-03	-	-03W	Ø99-48 UNJC-3B	535	184	140	133	-	.071	5/16	125	219	066	143	035	09
L04	L04K	L04W	-04	-04K	-04W	112-40 UNJC-3B	667	260	140	203	-	.089	200	143	219	098	166	040	12
L06	L06K	L06W	-06	-06K	-06W	138-32 UNJC-3B	684	265	195	218	-	.089	200	171	219	098	206	047	15
L08	L08K	L08W	-08	-08K	-08W	164-32 UNJC-3B	718	297	235	234	188	100	200	250	219	098	248	047	23
L3	L3K	L3W	3	3K	-3W	190-32 UNJC-3B	745	328	298	290	194	100	200	250	219	098	274	047	27
L4	L4K	L4W	4	4K	-4W	250-28 UNJF-3B	822	414	380	281	254	100	200	281	219	098	344	055	46
L5	L5K	L5W	5	5K	-5W	3 215-24 UNJF-3B	1 026	505	475	359	317	125	230	328	269	130	065	7 390	85
L6	L6K	---	6	---	-6W	375-24 UNJF-3B	1 139	614	580	414	379	125	230	344	269	130	075	11 450	204

(G) DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTIVITY DLA-15
CUSTODIANS ARMY- AV NAVY- AS
AIR FORCE- 11 DLA-
REVIEW 82
USER CR, MI
PROJECT NUMBER 5310-1981

MILITARY SPECIFICATION SHEET

TITLE
NUT, SELF-LOCKING, PLATE, ONE LUG,
REDUCED RIVET SPACING, LOW HEIGHT,
CRES, 125KSI FTU, 450F AND 800F

SPECIFICATION SHEET NUMBER 1 FEB 84
MS21072 REV G

SUPERSEDING
MS21072F 30 SEP87 (SEE NOTE 5.)

AMSC- N/A FSC 5310

DISTRIBUTION STATEMENT

A. Approved for public release distribution is unlimited

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MINIMUM "H" NOT SPECIFIED, LIMITED ONLY BY STRENGTH REQUIREMENTS OF SPECIFICATION
CENTER OF THE TAPPED HOLE SHALL NOT DEVIATE IN ANY DIRECTION FROM THE CENTER OF THE PLATE NUT AS DETERMINED BY THE RIVET HOLES
DIMPLED RIVET HOLE TOLERANCE FOR "G" IS + 0.015 - 0.000
SPACE WILL NOT PERMIT COUNTERSINK

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REQUIREMENTS		Form Approved OMB No 0704-0188																																						
1 <u>MATERIAL</u> CORROSION RESISTANT STEEL TYPE A286 (UNS S66286) IN ACCORDANCE WITH AMS5525 AMS5732 OR AMS5737																																								
2 <u>FINISH</u> ONLY 800°F NUTS SILVER PLATE ALL THREADED SURFACES OF NUT ELEMENT IN ACCORDANCE WITH AMS 2410 THREADS SHALL SHOW COMPLETE COVERAGE SILVER PLATING ON ALL OTHER SURFACES OPTIONAL TARNISHING OR DISCOLORATION OF SILVER NOT CAUSE FOR REJECTION																																								
3 <u>DIMENSIONING AND TOLERANCING</u> DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M																																								
4 <u>HARDNESS</u> 49HRC, MAX																																								
5 <u>THREADS</u> THREADS BEFORE LUBRICATION IN ACCORDANCE WITH MIL-S-8879																																								
6 <u>SURFACE TEXTURE</u> SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED SHALL NOT EXCEED 125 MICROINCHES IN ACCORDANCE WITH ANSI/ASME B46.1																																								
7 <u>LUBRICANT</u> ONLY 450°F NUTS DRY FILM LUBRICANT IN ACCORDANCE WITH MIL-N-25027																																								
8 <u>COUNTERBORE/COUNTERSINK</u> ON SIZE 164 AND LARGER THREAD RELIEF SHALL BE .062 MINIMUM, ON SIZE .0138 AND SMALLER COUNTERSINK TO "P" DIAMETER																																								
9 <u>PERFORMANCE</u> SEE PROCUREMENT SPECIFICATION EXCEPT 450°F DRY FILM LUBRICATED NUTS LIMITED TO FIVE REUSE CYCLES																																								
10 <u>PART NUMBER</u> THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE 1 EXAMPLE MS21072L4K <div style="margin-left: 40px;"> <div style="border-left: 1px solid black; width: 100px; height: 10px; margin-bottom: 2px;"></div> <div style="border-left: 1px solid black; width: 100px; height: 10px;"></div> <div style="margin-left: 10px;">DASH NUMBER</div> <div style="margin-left: 10px;">BASIC MS NUMBER</div> </div>																																								
MS21072L4K INDICATES NUT SELF-LOCKING, PLATE ONE LUG, REDUCED RIVET SPACING, LOW HEIGHT, CRES 125 KSI FTu, 450 DEGREES F, DRY FILM LUBRICATION 250-28 UNF-3B 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 (DODDSS) 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 MS21072 SUPERSEDES NAS696																																								
INTERCHANGEABILITY RELATIONSHIP																																								
MS21072 NUTS CAN UNIVERSALLY REPLACE NAS696 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 NAS696 NUTS CANNOT UNIVERSALLY REPLACE MS21072 NUTS																																								
INTERCHANGEABILITY TABLE																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">CANCELLED PART NUMBERS</th> <th style="text-align: left; padding: 2px;">SUBSTITUTIVE PART NUMBERS</th> </tr> </thead> <tbody> <tr><td>NAS696C02</td><td>MS21072-02</td></tr> <tr><td>NAS696C02M</td><td>MS21072L02</td></tr> <tr><td>NAS696C03</td><td>MS21072-03</td></tr> <tr><td>NAS696C03M</td><td>MS21072L03</td></tr> <tr><td>NAS696C04</td><td>MS21072-04</td></tr> <tr><td>NAS696C04LM</td><td>MS21072L04</td></tr> <tr><td>NAS696C06</td><td>MS21072-06</td></tr> <tr><td>NAS696C06LM</td><td>MS21072L06</td></tr> <tr><td>NAS696C08</td><td>MS21072-08</td></tr> <tr><td>NAS696C08M</td><td>MS21072L08</td></tr> <tr><td>NAS696C3</td><td>MS21072-3</td></tr> <tr><td>NAS696C3M</td><td>MS21072L3</td></tr> <tr><td>NAS696C4</td><td>MS21072-4</td></tr> <tr><td>NAS696C4M</td><td>MS21072L4</td></tr> <tr><td>NAS696C5</td><td>MS21072-5</td></tr> <tr><td>NAS696C5M</td><td>MS21072L5</td></tr> <tr><td>NAS696C6</td><td>MS21072-6</td></tr> <tr><td>NAS696C6M</td><td>MS21072L6</td></tr> </tbody> </table>			CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS	NAS696C02	MS21072-02	NAS696C02M	MS21072L02	NAS696C03	MS21072-03	NAS696C03M	MS21072L03	NAS696C04	MS21072-04	NAS696C04LM	MS21072L04	NAS696C06	MS21072-06	NAS696C06LM	MS21072L06	NAS696C08	MS21072-08	NAS696C08M	MS21072L08	NAS696C3	MS21072-3	NAS696C3M	MS21072L3	NAS696C4	MS21072-4	NAS696C4M	MS21072L4	NAS696C5	MS21072-5	NAS696C5M	MS21072L5	NAS696C6	MS21072-6	NAS696C6M	MS21072L6
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