

USER ACTIVITIES
ARMY-CR,MI
NAVY-OS

ONLY DURING TIMES OF TENSENESS AND DISTRESS

5310-1545

RECEIVED (F) 30 SEP 87

MILITARY STANDARD

MS21074

PAGE 1 OF 3

TITLE

NUT, SELF-LOCKING, PLATE, CORNER,
REDUCED RIVET SPACING, LOW HEIGHT,
CRES. 125KSI F_{tu}, 450°F & 800°F

SUPERSEDES

NAS 698

MIL-N-25027

TABLE 1. DATA MEASURES AND DIMENSIONS

DRAIN REPAIRS AND IMPROVEMENTS																				
DRAIN REPAIRS										DRAIN REPAIRS AND IMPROVEMENTS										
PLATE HOLES	450°/yr TYPE OR UNPLUGGED HOLES	WELDING OR UNPLUGGED HOLES	PLAIN OR UNPLUGGED HOLES	800°/yr TYPE OR UNPLUGGED HOLES	9 THREATS SLIDES	A MAJ	B MIN		C + .005	D/D MIN	E MIN	F G + .010	H/ MAJ	I + .002	O R/ + .005 - .000	P MAJ	Q P MAJ	R MAJ	S MAJ	
							MAJ	MIN												
L02	---	L02M	-02	---	084-56 UNLC-3B	288	092	081	125	---	071	2/	110	177	046	120	130	035	410	07
L03	---	L03M	-03	---	099-48 UNLC-3B	316	125	092	138	---	071	2/	125	196	046	130	143	035	510	09
L04	L04R	L04M	-04	-04R	112-40 UNLC-3B	648	156	096	203	---	089	200	141	287	098	215	164	040	710	11
L05	L05R	L05M	-05	-05R	138-32 UNLC-3B	441	154	121	218	---	085	200	171	308	098	232	205	047	1,130	14
L06	L06R	L06M	-06	-06R	164-32 UNLC-3B	691	163	125	234	168	100	200	250	311	098	210	248	047	1,720	21
L3	L3R	L3M	-3	3R	190-12 UNLC-3B	524	176	156	250	194	100	200	250	354	098	215	274	047	2,440	26
L4	L4R	L4M	-4	-4R	250-28 UNLC-3B	603	222	200	281	274	100	200	281	398	098	233	364	055	4,560	65
L5	L5R	L5M	-5	-5R	317-24 UNLC-3B	753	273	250	359	317	125	230	378	508	130	280	417	065	7,190	80
L6	---	L6M	-6	---	375-28 UNLC-3B	876	311	305	414	379	125	230	344	585	130	303	505	075	11,610	132

MEMBER "N" NOT SPECIFIED, LIMITED ONLY BY STRUCTURE REQUIREMENTS OF SPECIFICATION
SPACE WILL NOT PERMIT COUPLING
DOUBLED EVENT HOLE TOLERANCE FOR 3" x 15" x 1000

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REVIEWER ACTIVITIES
AIR FORCE-82
DLA-15

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Deletion for all new engineering and design applications and for repetitive use shall be made from this
document when applicable

FED SUP CLASS
5310

REQUIREMENTS

1. MATERIAL CORROSION RESISTANT STEEL, TYPE A286, (UNS S66286) IN ACCORDANCE WITH AMS5525, AMS5732 OR AMS777
2. FINISH 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. LUBRICANT ONLY 450°F NUTS DRY FILM LUBRICANT IN ACCORDANCE WITH MIL-N-25027
4. DIMENSIONING AND TOLERANCING DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANG. Y.4.5*
5. HARDNESS 49HRC, MAX
6. THREADS THREADS BEFORE LUBRICATION IN ACCORDANCE WITH MIL-S-8879
7. SURFACE TEXTURE SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED, SHALL NOT EXCEED 125 MICROINCHES, IN ACCORDANCE WITH ANSI B46.1
8. COUNTERBORE/COUNTERSINK ON SIZE 164 AND LARGER, THREAD RELIEF SHALL BE .062 MINIMUM, ON SIZE 138 AND SMALLER, COUNTERSINK OR RADIUS WITHIN ".P" DIAMETER.
9. PERFORMANCE SEE PROCUREMENT SPECIFICATION, EXCEPT 450°F DRY FILM LUBRICATED NUTS LIMITED TO FIVE REUSE CYCLES
10. PART NUMBER THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE 1

EXAMPLE MS21074L4K

└── DASH NUMBER
└── BASIC MS NUMBER

MS21074L4K INDICATES NUT, SELF-LOCKING, PLATE, ONE LUG, REDUCED RIVET SPACING, LOW HEIGHT, CRES .125 KSI Ftu, 450°F, DRY FILM LUBRICATION, 250-28 UNF-38, COUNTERSINK 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 QPL 25027 SHALL BE USED

APPROVED 6 APR 64 REVISED (F) FOR CHANGES SEE PAGES 1, 2 AND 3

P A NAVY-AS Other Code ARMY-AV AIR FORCE-11	INTERNATIONAL INTEREST	TITLE NUT, SELF-LOCKING, PLATE, CORNER, REDUCED RIVET SPACING, LOW HEIGHT, CRES, 125KSI Ftu, 450°F & 800°F	MILITARY STANDARD MS21074
PROCUREMENT SPECIFICATION MIL-N-25027	SUPERSEDES	NAS 698	PAGE 2 OF 3

DD FORM 672-1 (COORDINATED)
1 MAY 71

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5310-1545

FED SUPPLAS
5310INTERCHANGEABILITY RELATIONSHIP

MS21074 NUTS CAN UNIVERSALLY REPLACE NAS698 NUTS OF LIKE MATERIAL, THREAD SIZE, LUBRICANT (DRY FILM OF NON-DRY FILM LUBRICANT), AND FASTENING METHOD (PLAIN RIVET HOLES, DIMPLED OR COUNTERSUNK RIVET HOLES), BUT THESE NAS698 NUTS CANNOT UNIVERSALLY REPLACE MS21074 NUTS

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS
NAS698C02	MS21074-02
NAS698C02M	MS21074L02
NAS698C03	MS21074-03
NAS698C03M	MS21074L03
NAS698C04L	MS21074-04
NAS698C04LX	MS21074-04K
NAS698C04LM	MS21074L04
NAS698C04LMK	MS21074L04K
NAS698C06L	MS21074L06
NAS698C06LX	MS21074-06K
NAS698C06LM	MS21074-06
NAS698C06LMK	MS21074L06K
NAS698C08	MS21074-08
NAS698C08K	MS21074-08K
NAS698C08M	MS21074L08
NAS698C08MK	MS21074L08K
NAS698C1	MS21074-1
NAS698C1K	MS21074-1K
NAS698C1M	MS21074L1
NAS698C1MK	MS21074L1K
NAS698C4	MS21074-3
NAS698C4K	MS21074-3K
NAS698C4M	MS21074L4
NAS698C4MK	MS21074L4K
NAS698C5	MS21074-5
NAS698C5K	MS21074-5K
NAS698C5M	MS21074L5
NAS698C5MK	MS21074L5K
NAS698C6	MS21074-6
NAS698C6K	MS21074-6K
NAS698C6M	MS21074L6
NAS698C6MK	MS21074L6K

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