

AMSC N/A

FED SUP CLASS
5310

REQUIREMENTS

1. MATERIAL CORROSION RESISTANT STEEL, TYPE A286, (UNS S46286) IN ACCORDANCE WITH AMS5525, AMS5732 OR AMS5737
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 ANSI Y14.5M
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, 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
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: MS21052L4K

DASH NUMBER

BASIC MS NUMBER

MS21052L4K INDICATES: NUT, SELF-LOCKING, PLATE, ONE LUG, LOW HEIGHT, CRES, 125 KSI F_{tu},
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

NAVY-AS Other Cast ARMY-AV AIR FORCE-III	INTERNATIONAL INTEREST	TITLE NUT, SELF-LOCKING, PLATE, ONE LUG, LOW HEIGHT, CRES, 125 KSI F _{tu} , 450° AND 800°F	MILITARY STANDARD MS21052
PROCUREMENT SPECIFICATION MIL-N-25027	SUPERSEDES NAS682, NAS1025 IN PART	PAGE 2 OF 3	

DD FORM 13 MAY 73 672-1 COORDINATED

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5310-1534

ARMY-CR,MI

ARMY-AR
AIR FORCE-99
DLA-IS

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APPROVED 12 JUN 64 REVISED (F) FOR CHANGES SEE PAGES 1, 2 AND 3

FED SUP CLASS
5310INTERCHANGEABILITY RELATIONSHIP

MS21052 NUTS CAN UNIVERSALLY REPLACE NAS682 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 OR PROJECTION WELDING), BUT THESE NAS682 NUTS CANNOT UNIVERSALLY REPLACE MS21052 NUTS

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBER	SUBSTITUTIVE PART NUMBER	CANCELLED PART NUMBER	SUBSTITUTIVE PART NUMBER
NAS682C06	MS21052-06	NAS682C5	MS21052-5
NAS682C06K	MS21052-06K	NAS682C5K	MS21052-5K
—	MS21052-06W	—	MS21052-5W
NAS682C06M	MS21052L06	NAS682C5M	MS21052L5
NAS682C06MK	MS21052L06K	NAS682C5MK	MS21052L5K
—	MS21052L06W	—	MS21052L5W
NAS682C08	MS21052-08	NAS682C6	MS21052-6
NAS682C08K	MS21052-08K	—	MS21052-6W
—	MS21052-08W	NAS682C6M	MS21052L6
NAS682C08M	MS21052L08	—	MS21052L6W
NAS682C08MK	MS21052L08K	NAS682C7	MS21052-7
—	MS21052L08W	—	MS21052-7W
NAS682C3	MS21052-3	NAS682C7M	MS21052L7
NAS682C3K	MS21052-3K	—	MS21052L7W
—	MS21052-3W		
NAS682C3M	MS21052L3		
NAS682C3MK	MS21052L3K		
—	MS21052L3W		
NAS682C4	MS21052-4		
NAS682C4K	MS21052-4K		
—	MS21052-4W		
NAS682C4M	MS21052L4		
NAS682C4MK	MS21052L4K		
—	MS21052L4W		

USER ACTIVITIES:
ARMY - CR, MI

REVISER ACTIVITIES:
ARMY - AR
AIR FORCE - 99
DLA - IS

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

P A NAVY-AS Other Cost ARMY-AV AIR FORCE-II	INTERNATIONAL INTEREST	TITLE NUT, SELF-LOCKING, PLATE, ONE LUG, LOW HEIGHT, CRES, 125 KSI Flu, 450° AND 800° F	MILITARY STANDARD	
			MS21052	
PROCUREMENT SPECIFICATION MIL-N-25027		SUPERSEDES: NAS682, NAS1025 IN PART		PAGE 3 OF 3

DD FORM 672-1 (COORDINATED)

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