

REVISED (F) 30 SEP 87

UNCLASSIFIED
ARMY-CR, M

REVIEWED ACTIVITIES
AIR FORCE-82
DLA-15

This military standard is approved for use by all Departments and Agencies of the Department of Defense.
Instructions for all new engineering and design applications and for repetitive use shall be made from this
document when applicable

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5310

REQUIREMENTS

- MATERIAL:** CORROSION RESISTANT STEEL, TYPE A286, (UNS S46286) IN ACCORDANCE WITH AMS5525, AMS5732 OR AMS5737
- 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.
- LUBRICANT:** ONLY 450°F NUTS: DRY FILM LUBRICANT IN ACCORDANCE WITH MIL-N-25027
- DIMENSIONING AND TOLERANCING:** DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M.
- HARDNESS:** 49HRC, MAX.
- THREADS:** THREADS BEFORE LUBRICATION IN ACCORDANCE WITH MIL-S-8879.
- SURFACE TEXTURE:** SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED, SHALL NOT EXCEED 125 MICROINCHES, IN ACCORDANCE WITH AMS B46.1.
- 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.
- PERFORMANCE:** SEE PROCUREMENT SPECIFICATION, EXCEPT 450°F DRY FILM LUBRICATED NUTS LIMITED TO FIVE REUSE CYCLES.
- PART NUMBER:** THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE 1.

EXAMPLE MS21056LAK
 └───┬─── DASH NUMBER
 └───┴─── BASIC MS NUMBER

MS21056LAK INDICATES: NUT, SELF-LOCKING, PLATE, CORNER, LOW HEIGHT, CRES, 125 KSI Ftu, 450°F DRY FILM LUBRICATION, .250-28 UNF-2B; COUNTERSINK OR DIMPLED HOLES.

NOTES:

- ALL DIMENSIONS ARE IN INCHES.
- 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.
- 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.
- 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 21 JUL 64 REVISED (E) FOR CHANGES SEE PAGES 1,2 AND 3

NAVY-AS Other Code ARMY-AV AIR FORCE-II	INTERNATIONAL INTEREST	TITLE NUT, SELF-LOCKING, PLATE, CORNER, LOW HEIGHT, CRES, 125 KSI Ftu, 450° & 800°F	MILITARY STANDARD MS21056
PROCUREMENT SPECIFICATION MIL-N-25027	SUPERSEDES NAS 684, NAS 1027 IN PART	PAGE 2 OF 3	

DD FORM 672-1 (COORDINATED)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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INTERCHANGEABILITY RELATIONSHIP

MS21056 NUTS CAN UNIVERSALLY REPLACE NAS684 AND NAS1027 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 NAS684 AND NAS1027 NUTS CANNOT UNIVERSALLY REPLACE MS21056 NUTS)

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS	CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS	CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS	CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS
NAS684CD6	MS21056-06	NAS684CAK	MS21056-4K	NAS1027CD4	MS21056-04	NAS1027C4W	MS21056-4W
NAS684CD6K	MS21056-06K	—	MS21056-4W	NAS1027CD4K	MS21056-04K	NAS1027C4	MS21056-4
—	MS21056-06W	NAS684C4H	MS21056L4	NAS1027CD4W	MS21056-04W	NAS1027C5K	MS21056-5K
NAS684CD6H	MS21056L06	NAS684C4HK	MS21056L4K	NAS1027CD6	MS21056-06	NAS1027C5W	MS21056-5W
NAS684CD6HK	MS21056L06K	—	MS21056L4W	NAS1027CD6K	MS21056-06K	NAS1027C6	MS21056-6
—	MS21056L06W	NAS684C5	MS21056-5	NAS1027CD6W	MS21056-06W	NAS1027C6W	MS21056-6W
NAS684CD8	MS21056-08	NAS684C5K	MS21056-5K	NAS1027CD8	MS21056-08	NAS1027C7	MS21056-7
NAS684CD8K	MS21056-08K	—	MS21056-5WK	NAS1027CD8K	MS21056-08K	NAS1027C7W	MS21056-7W
—	MS21056-08W	NAS684C5H	MS21056L5	NAS1027CD8W	MS21056-08W	NAS1027C8	MS21056-8
NAS684CD8H	MS21056L08	NAS684C5HK	MS21056L5K	NAS1027C3	MS21056-3	NAS1027C8W	MS21056-8W
NAS684CD8HK	MS21056L08K	—	MS21056L5W	NAS1027C3K	MS21056-3K	NAS1027C10	MS21056-10
—	MS21056L08W	NAS684-6	MS21056-6	NAS1027C3W	MS21056-3W	NAS1027C10W	MS21056-10W
NAS684C3	MS21056-3	—	MS21056-6W	NAS1027C4	MS21056-4	—	—
NAS684C3K	MS21056-3K	NAS684C6P	MS21056L6	NAS1027C4K	MS21056-4K	—	—
—	MS21056-3W	—	MS21056L6W	—	—	—	—
NAS684C3H	MS21056L3	NAS684C7	MS21056-7	—	—	—	—
NAS684C3HK	MS21056L3K	—	MS21056-7W	—	—	—	—
—	MS21056L3W	NAS684C7H	MS21056L7	—	—	—	—
NAS684C4	MS21056-4	—	MS21056L7W	—	—	—	—

USER ACTIVITIES
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REVIEWER ACTIVITIES
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P A NAVY-AS Other Code ARMY-AV AIR FORCE-II	INTERNATIONAL INTEREST	TITLE NUT, SELF-LOCKING, PLATE, CORNER, LOW HEIGHT, CRES, 125 KSI Flu, 450° B 800° F	MILITARY STANDARD MS21056
PROCUREMENT SPECIFICATION MIL-N-25027	SUPERSEDED	NAS 684, 1027 IN PART	PAGE 3 OF 3

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