

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 THAT ISSUE OF THE DOOMS SPECIFIED IN
THE SOLICITATION MIL-N-25027

DASH NUMBER		T	A	B	C	F	FG	H	J	J/K	SP	V	SW	AXIAL STRENGTH LBS/MIN	WEIGHT LBS/100
PLAN HOLES	-04	112-40 UNLC-3B	1 094	422	344	115	200	218	312	098	270	172	112	750	55
CSK OR DIMPLED HOLES	-06	138-32 UNLC-3B	1 094	422	344	115	200	234	312	098	270	198	138	1,130	56
	-08	164-32 UNLC-3B	1 094	422	344	115	200	312	312	098	270	224	184	1,720	80
	-3	180-32 UNLC-3B	1 094	422	344	115	200	312	312	098	270	250	190	2,480	90
	-4	250-28 UNLC-3B	1 316	531	500	115	200	387	312	098	330	310	250	4,580	120
	-5	3125-24 UNLC-3B	1 378	641	500	115	230	387	312	130	393	373	312	7,360	220
	-6	375-24 UNLC-3B	1 422	703	500	125	230	479	312	130	467	438	375	11,450	280
	-8	500-20 UNLC-3B	1 800	859	825	125	230	630	500	181	550	500	500	15,450	400

1/ DIMPLED RIVET HOLE TOLERANCE FOR "GK" IS +015 - 000

INCH-POUND

(F) DENOTES CHANGE(S)

PREPARING ACTIVITY DLA-IS CUSTODIANS ARMY-AV NAVY-AS AIR FORCE-11 DLA- REVIEW 82 USER: CR, WH PROJECT NUMBER 5310-1907 DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited	MILITARY SPECIFICATION SHEET TITLE NUT, SELF-LOCKING, PLATE, ONE LUG, FLOATING NON-METALLIC INSERT, (F) STEEL, 125 KSI F _{tu} , 250F	SPECIFICATION SHEET NUMBER MS21082 SUPERSEDING MS21082 F 20 APR 83 (SEE NOTE 8) AMSC- N/A FSC 5310
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DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

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REQUIREMENTS.

Form Approved
OMB No. 0704-0188

1. MATERIAL
(F) NUT - STEEL COMPOSITIONS 1035 (UNS G10350), 1040 (UNS G10400) AND 1050 (UNS G10500) IN ACCORDANCE WITH ASTM A27, AMS 5065 AND QQ-S-700-1008 (UNS G10080), 1042 (UNS G10420), IN ACCORDANCE WITH ASTM A29, 1137 (UNS G11370), IN ACCORDANCE WITH AMS 5024
(F) ALLOY STEEL GRADES 4130 (UNS G41300) 4340 (UNS G43400) AND 8740 (UNS G87400) IN ACCORDANCE WITH ASTM A29
(F) RETAINER - CARBON STEEL COMPOSITION 1035 (UNS G10350), 1050 (UNS G10500) IN ACCORDANCE WITH ASTM A27, AMS 5065 AND QQ-S-700
2. FINISH CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 2
3. DIMENSIONING AND TOLERANCING DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M
4. HARDNESS 35HRC, MAX
5. THREADS THREADS IN ACCORDANCE WITH MIL-S-8879
6. SURFACE TEXTURE SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED SHALL NOT EXCEED 125 MICROMETRES, IN ACCORDANCE WITH ANSI/ASME B46.1
7. VIBRATION LIFE MINIMUM VIBRATION LIFE REQUIREMENT SHALL BE THREE TIMES AVERAGE VIBRATION LIFE IN ACCORDANCE WITH PROCUREMENT SPECIFICATION
8. EDGES BREAK ALL SHARP EDGES AND REMOVE ALL BURRS
9. FLOAT FLOAT OF THE NUT PORTION OF ASSEMBLY SHALL NOT BE LESS THAN .030 LATERALLY AND LONGITUDINALLY FROM CENTERED POSITION. NUT BODY SHALL BE CAPABLE OF ENGAGEMENT WITH A BOLT IN MAXIMUM MISALIGNMENT POSITION. MAXIMUM AXIAL FLOAT .020 INCHES FOR .190 AND SMALLER .030 FOR .250 AND LARGER. NUT MISALIGNMENT SHALL NOT EXCEED DIMENSION "B" THE NUT AND BASE PORTION OF THE ASSEMBLY SHALL FORM ONE INTEGRAL UNIT AND THE ASSEMBLY SHALL PROVIDE A BEARING SURFACE FOR THE NUT
10. PART NUMBER THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I
EXAMPLE MS21082-4

DASH NUMBER

BASIC MS NUMBER

MS21082-4 INDICATES NUT, SELF-LOCKING PLATE, ONE LUG, FLOATING, NON-METALLIC INSERT STEEL, 125 KSI Fw, 250F, 250-28 UNF-3B, PLAIN 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 OPL 25027 SHALL BE USED
5. MS21082 SUPERSEDES NAS1032

INTERCHANGEABILITY RELATIONSHIP

MS21082 NUTS CAN UNIVERSALLY REPLACE NAS1032 NUTS OF LIKE MATERIAL, THREAD SIZE, AND FASTENING METHOD (PLAIN RIVET HOLES, DIMPLED OR COUNTERSUNK RIVET HOLES) BUT THESE NAS1032 NUTS CANNOT UNIVERSALLY REPLACE MS21082 NUTS.

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS
NAS1032N04	MS21082-04
NAS1032N04K	MS21082-04K
NAS1032N06	MS21082-06
NAS1032N06K	MS21082-06K
NAS1032N08	MS21082-08
NAS1032N08K	MS21082-08K
NAS1032N13	MS21082-13
NAS1032N13K	MS21082-13K
NAS1032N14	MS21082-14
NAS1032N14K	MS21082-14K
NAS1032N15	MS21082-15
NAS1032N15K	MS21082-15K
NAS1032N16	MS21082-16
NAS1032N16K	MS21082-16K
NAS1032N18	MS21082-18
NAS1032N18K	MS21082-18K

PREPARING ACTIVITY DLA-15

CUSTOMERS ARMY-AV

NAVY-AS

AIR FORCE-11

DLA-

REVIEW 82

USER CR, MI

PROJECT NUMBER 5310-1907

DISTRIBUTION STATEMENT

MILITARY SPECIFICATION SHEET

TITLE
NUT, SELF-LOCKING, PLATE, ONE LUG,
FLOATING, NON-METALLIC INSERT. (F)
STEEL, 125 KSI Fw, 250F

SPECIFICATION SHEET NUMBER

MS21082

1 SEP 83
REV F

SUPERSEDING

MS21082 E 20 APR 83 (SEE NOTE 8)

AMSC-

N/A

FSC 8310

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