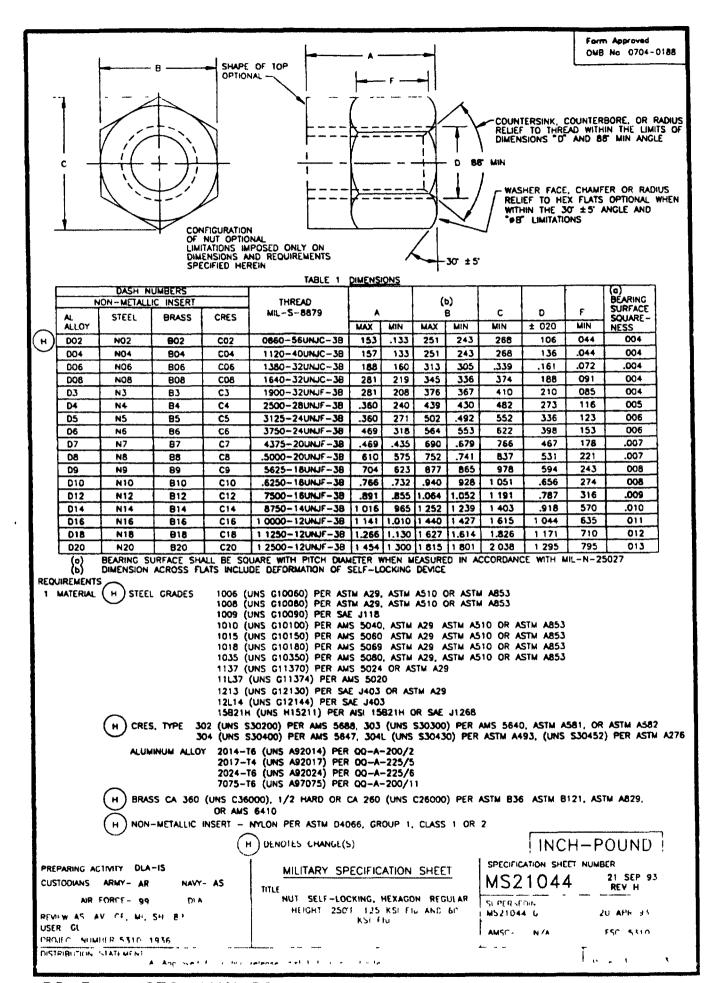
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ACENCIES

PROTECTIVE COATING. STEEL AND BRASS NUTS - CADMIUM PLATED IN ACCORDANCE WITH OQ-P-416 TYPE II CLASS 2

Form Approved OMB No 0704-0188

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CORROSION-RESISTANT STEEL NUTS - PASSIVATE IN ACCORDANCE WITH QQ-P-35

ALUMINUM ALLOY NUTS - ANODIZE OR CHEMICALLY SURFACE TREAT IN ACCORDANCE WITH PROCUREMENT SPECIFICATION

ALUMINUM ALLOY NUTS - IN SIZES THRU 0.2500-28 DYED BLUE PER PROCUREMENT SPECIFICATION

3 LUBRICANT, LUBRICANT APPROVED IN ACCORDANCE WITH MIL-N-25027, LUBRICANT SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN THE PROCUREMENT SPECIFICATION

4 MAGNETIC PERMEABILITY MAGNETIC PERMEABILITY OF CORROSION-RESISTANT STEEL NUTS SHALL BE LESS THAN 2.0 (AIR-1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS WHEN TESTED IN ACCORDANCE WITH ASTM A342 METHOD 6 н

5 SURFACE ROUGHNESS, SURFACE ROUGHNESS IN ACCORDANCE WITH ANSI/ASME 846 1 UNLESS OTHERWISE SPECIFIED, SURFACES SHALL NOT EXCEED 125 MICROINCHES

6 VIBRATION LIFE, MINIMUM VIBRATION LIFE REQUIREMENT FOR NON-METALLIC INSERT PARTS SHALL BE THREE TIMES AVERAGE VIBRATION LIFE LISTED IN MIL-N-25027

PART NUMBER, THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I EXAMPLE OF PART NUMBERS

> MS21044N4 = 2500-28 STEEL NUT NON-METALLIC INSERT, CADMIUM PLATED MS2104404 = 2500-28 ALUMINUM ALLOY NUT, NON-METALLIC INSERT, ANDDIZED
> MS2104404 = 2500-28 BRASS NUT, NON-METALLIC INSERT, CADMIUM PLATED
> MS21044C4 = 2500-28 CRES NUT, NON-METALLIC INSERT PASSIVATED

TABLE II PERFORMANCE CHARACTERISTICS

	AXIAL STRENGTH (LB/MIN)			WEIGHT,	REF	
THREAD MIL-S-8879	STEEL	AL ALLOY	CRES	AL ALLOY	STEEL	BRASS
0860-56UNJC-38	440	220	440	06	15	16
1120-40UNJC-38	750	750	750	06	15	16
1380-32UNJC-38	1,130	1,130	1,130	11	30	32
1640-32UNJC-38	1 720	1,720	1,720	18	50	54
1900-32UNJF-3B	2 460	2,460	2,460	.21	58	.63
2500-28UNJF-38	4 580	4,580	4,580	36	99	1 10
3125-24UNJF-38	7 390	3,670	7,390	50	1 40	1 50
3750-24UNJF-38	11,450	5,680	11,450	75	2 15	2 30
4375-20UNJF-38	15,450	7,660	15,450	1 20	3 40	3 70
5000-20UNJF-38	21 110	10,470	21 110	1 70	4 70	5 10
.5625-18UNJF-38	25,810	13,330	26,810	2 80	7 80	8 50
6250-18UNJF-38	34 130	16,930	34,130	3 40	9 50	10 30
7500-16UNJF-38	50 020	24,810	50 020	5 00	13 60	15 00
8750-14UNJF-38	68,440	33,950	68 440	7 60	21 00	23 00
1 0000-12UNJF-38	92,180	45,720	92 180	11 00	31 00	33 00
1 1250-12UNJF-38	116 700	57,880	116,700	17 00	46 00	50 00
1 2500-12UNJF-3B	147,940	73,380	147,940	24 00	65 00	70 00

## NOTES.

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- 1 BREAK ALL SHARP EDGES AND REMOVE ALL BURRS AND SLIVERS
- 2 DIMENSIONS ARE IN INCHES
- 3 DESIGN AND USAGE LIMITATIONS THESE NUTS ARE DESIGNED TO DEVELOP THE TENSILE STRENGTH OF BOLTS AND SCREWS WITH AN ULTIMATE STRESS (FLV) OF 125 KSI (60 KSI FOR ALUMINUM PARTS) BASED ON THE CROSS-SECTIONAL AREA AT THE BASIC ROOT DIAMETER OF THE THREAD. THESE NUTS ARE DESIGNED TO BE USED ON 3A EXTERNAL THREADS PER MIL-S-8879 THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF MS33588
- 4 INTERCHANGEABILITY RELATIONSHIPS (STATUS NOTE)

  (STATUS NOTE)

  MS21044 NUTS CAN UNIVERSALLY REPLACE AN365, MS20365 AND NAS1021 NUTS OF LIKE MATERIAL (INSERT LOCKING DESIGNS CAN BE SUBSTITUTED FOR THE INACTIVATED BRASS OR ALUMINUM ALLOY ALL-METAL COCKING DESIGN NUTS AN365, MS20365 AND NAS1021 NUTS CANNOT UNIVERSALLY REPLACE THE MS21044 NUTS FOR DEFINITION AND APPLICATION OF DRAWING STATUS NOTES SEE MIL-STD-962
- IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD 5 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 SOLITICATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN
- BIDS SHALL BE SOLICITED ONLY FROM THE MANUFACTURERS OR DISTRIBUTORS LISTED ON OPL-25027

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PREPARING ACTIVITY DLA-IS	MILITARY SPECIFICATION SHEET	SPECIFICATION SHEET NUMBER			
CUSTODIANS ARMY- AR NAVY- AS	TITLE	MS21044	21 SEP 93 REV H		
AIR FORCE 99 DIA REVIEW AS AV, CF MI, SH, 87	NUT SELF LOCKING, HEXAGON, REGULAR HEIGHT, 250°F, 125 KS; Ftu AND 60 KS! Ftu	SUPERSEDING MS21044 G	20 APR 93		
USER GL PROJECT NUMBER 5310-1936		AMSC N/A	FSC 5310		

TABLE III INTERCHANGEABILITY

Form Approved OMB No 0704-0188

ſ	SEE INTERCHANCEARIUM PELATIONICUID STATUS NOTE										
ŀ	SEE INTERCHANGEABILITY RELATIONSHIP STATUS NOTE  CANCELLED PART NUMBERS									Υ	<del></del>
		AN365 MS20365			NAS1021 MS21044		SUBSTITUTE PART NUMBERS				
	-440 8440 0440	-440C B440C D440C	-440A B440A D440A	-440 8440 D440	~440C B440C D440C	-440A B440A D440A	NO4 B04 D04	E04 H04	E04 H04	MS2104	4 NO4 BO4 DO4
	-632 8632 0632	-632C 8632C 0632C	-632A B632A D632A	-632 8632 0632	-632C 8632C 0632C	-632A B632A D632A	N06 806 D06	E06 H06	E06 H06		N06 806 D06
	-832 8832 0832	-832C 8832C 0832C	-832A 8832A 0832A	-832 8832 0832	-832C 8832C 0832C	-832A B832A D832A	NO8 808 DO8	E08 H08	E08 H08		N08 808 008
	-1032 81032 01032	-1032C B1032C D1032C	-1032A B1032A D1032A	-1032 B1032 D1032	-1032C B1032C D1032C	- 1032A B1032A D1032A	N3 B3 D3	E3 H3	E3 H3		N3 B3 D3
	-428 8428 D428	-428C 8428C D428C	-428A 8428A D428A	-428 8428 0428	-428C 8428C D428C	-428A 8428A 0428A	N4 84 D4	E4 H4	E4 H4		N4 B4 D4
	-524 8524 0524	-524C 8524C 0524C	-524A B524A	-524 8524	-524C B524C	-524A B524A	N5 B5 D5	E5 H5	E5 H5		N5 85 D5
	-624 8624 D624	-624C 8624C D624C	-624A 8624A 0624A	-624 B624 D624	-624C B624C D624C	-624A B624A D624A	N6 86 D6	E6 H6	E6 H6		N6 B6 D6
	-720 8720 0720	-720C 8720C 0720C	-720A 8720A D720A	-720 8720 0720	-720C 8720C D720C	-720A B720A D720A	N7 B7 D7	E7 H7	E7 H7		N7 B7 D7
	-820 9820 0820	-820C 8820C 0820C	-820A 8820A 0820A	-820 8820 0820	-820C 8820C 0820C	-820A 8820A 0820A	N8 B8 D8	83 H8	ЕВ НВ		N8 88 08
(I)	-918 6918 0918	-918C 8918C 0918C	-918A 8918A D918A	~918 8918 0918	-918C 8918C 0918C	-918A B918A D918A	N9 B9 D9	E9 H9	E9 H9		N9 89 D9
	-1018 81018 01018	-1018C 81018C D1018C	-1018A B1018A D1018A	-1018 B1018 D1018	-1018C 81018C 01018C	-1018A B1018A D1018A	N10 B10 D10	E10 H10	E10 H10		N10 B10 D10
	-1216 B1216 D1216	-1216C B1216C D1216C	-1216A B1216A D1216A	-1216 81216 D1216	-1216C 81216C 01216C	-1216A B1216A D1216A	N12 B12 D12	E12 H12	E12 H12		N12 B12 D12
	-1414 B1414 D1414	-1414C B1414C D1414C	-1414A B1414A D1414A	-1414 81414 D1414	-1414C B1414C D1414C	-1414A B1414A D1414A	N14 B14 D14	E14 H14	E14 H14	MS2104	N14 B14 I4 D14
	-1614 B1614 D1614	-1614C B1614C D1614C	-1614A B1614A D1614A	-1614 B1614 D1614	-1614C B1614C D1614C	-1614A B1614A D1614A		E17 H17		NAS102 NAS102 NAS102	1 817
							N16 B16 D16	E16 H16	E16 H16	MS2104	N16 B16 D16
	-1812 81812 D1812	-1812C B1812C D1812C	-1812A 81812A D1812A	-1812 81812 01812	-1812C 81812C 01812C	-1812A 81812A D1812A	N18 B18 D18	E18 H18	E18 H18		N18 B18 O18
	-2012 B2012 D2012	-2012C 82612C 02012C	-2012A B2012C D2012A	-2012 82012 02012	-2012C 82012 D2012C	-2012A B2012C D2012A	N20 820 020	E20 H20	E20 H20	MS2104	N20 820 14 D20

PREPARING ACTIVITY DLA-IS CUSTODIANS ARMY-AR NAVY-AS	MILITARY SPECIFICATION SHEET	SPECIFICATION SHEET N MS21044 SUPERSEDING MS21044 G		NUMBER 21 SEP 93 REV H 20 APR 93			
AIR FORCE- 99 DLA- REYIEW AS, AV, CF, MI, SH, 82	NUT, SELF-LOCKING HEXAGON, REGULAR, HEIGHT, 250°F, 125 KSI FIU AND 60						
USER CL PROJECT NUMBER 5310~1936	KSI Flu	AMS(*	N/A	FSC 5310			
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