



TABLE I. DIMENSIONS AND TENSILE STRENGTHS

AN PART NO.	THREAD T	ULTIMATE TENSILE STRENGTH (σ)		A	B (REF)	E ±.015	H	J +.031 - .000
		STEEL	AL ALLOY					
AN320-1	.1360-40UNF-3B	-	-	.513 +.002 - .010	.358	.078	.156	.078
AN320-2	.1640-36UNF-3B	-	-	.344 +.002 - .010	.391	.078	.156	.078
AN320-3	.1900-32UNF-3B	1,105	550	.375 +.002 - .010	.438	.094	.188	.078
AN320-4	.2500-28UNF-3B	2,040	1,015	.438 +.002 - .010	.500	.094	.188	.078
AN320-5	.3125-24UNF-3B	3,250	1,610	.500 +.002 - .010	.578	.094	.188	.078
AN320-6	.3750-24UNF-3B	5,050	2,510	.563 +.002 - .010	.656	.109	.219	.078
AN320-7	.4375-20UNF-3B	6,800	3,375	.625 +.002 - .011	.719	.109	.219	.125
AN320-8	.5000-20UNF-3B	9,250	4,590	.750 +.002 - .012	.875	.141	.250	.125
AN320-9	.5625-18UNF-3B	11,800	5,850	.875 +.002 - .012	1.016	.188	.313	.156
AN320-10	.6250-18UNF-3B	15,050	7,450	1.000 +.002 - .014	1.156	.188	.313	.156
AN320-12	.7500-16UNF-3B	22,000	10,900	1.125 +.002 - .016	1.297	.250	.375	.156
AN320-14	.8750-14UNF-3B	30,000	14,900	1.313 +.002 - .017	1.516	.313	.438	.156
AN320-15	1.0000-12UNF-3B	40,350	20,000	1.500 +.002 - .019	1.734	.375	.500	.156
(14) AN320-16	1.0000-14NF-3B	40,350	20,000	1.500 +.002 - .019	1.734	.375	.500	.156
AN320-18	1.1250-12UNF-3B	50,900	25,250	1.688 +.002 - .021	1.953	.406	.563	.156
AN320-20	1.2500-12UNF-3B	65,100	32,200	1.875 +.002 - .023	2.172	.469	.625	.156

(c) FOR ALUMINUM-ALLOY NUTS LARGER THAN -5 SIZE, TOLERANCES ON DIMENSION "A" MAY CONFORM TO APPLICABLE MATERIAL SPECIFICATION FOR BAR AND ROD.

(14) (b) 1-14 NF NOMINAL THREAD SIZE WAS INACTIVATED FOR NEW DESIGN AFTER 27 MARCH 1967 BUT IS STILL PROCURABLE.

REQUIREMENTS:

- (14) 1. MATERIAL: STEEL GRADE C, FOR NOMINAL SIZE .4375 AND LARGER, HEAT TREATED TO ROCKWELL C HARDNESS RANGE 24-32, ALUMINUM ALLOY, OR 300 SERIES CORROSION-RESISTANT STEEL, SEE PROCUREMENT SPECIFICATION.
2. FINISH: STEEL-CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 2. ALUMINUM ALLOY- ANODIZE IN ACCORDANCE WITH MIL-A-8625, TYPE II CORROSION RESISTANT STEEL- PASSIVATE IN ACCORDANCE WITH QQ-P-35.
- (14) 3. MARKING: MARKING SHALL BE IN ACCORDANCE WITH SAE AS478-2B1.

NOTES:

1. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS: ±.010, ANGLES ± 1'.
2. REMOVE ALL BURRS.
- (14) 3. EXAMPLE OF PART NUMBERS: AN320-7 = NUT, STEEL, .4375-20UNF-3B.
AN32007 = NUT, ALUMINUM ALLOY, .4375-20UNF-3B.
AN320C7 = NUT, CORROSION-RESISTANT STEEL, .4375-20UNF-3B.
4. ADD "D" IN PLACE OF DASH NUMBER FOR ALUMINUM ALLOY NUTS.
ADD "C" IN PLACE OF DASH NUMBER FOR CORROSION-RESISTANT STEEL NUTS.
- (14) 5. NUTS MANUFACTURED TO PREVIOUS REVISIONS 11, 12, AND 13 MAY BE FURNISHED FROM SUPPLIERS STOCK UNTIL 20 AUGUST 1988.
- (14) 6. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS DOCUMENT AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS DOCUMENT SHALL TAKE PRECEDENCE.
- (14) 7. UNLESS OTHERWISE SPECIFIED, ISSUES OF REFERENCED DOCUMENTS ARE THOSE IN EFFECT AT THE TIME OF SOLICITATION.

(14) DENOTES CHANGE(S)

P.A. OLA- 15 CUSTODIANS: ARMY- AV NAVY- AS AIR FORCE- 99	AIR FORCE - NAVY AERONAUTICAL STANDARD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.	AN320
	NUT, PLAIN, CASTELLATED, SHEAR	
PROCUREMENT SPECIFICATION FF-N-636	SUPERSEDES: FORMER USAF AND NAVY STANDARD ISSUE OF AN320	SHEET 1 OF 1

REVERSE SYMBOLS:
ARMY- AR
AIR FORCE- 82

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AMSC R/A, Project No. 5310-2043

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