

REV.
C

AS121501™ THRU
AS121525™

RATIONALE

INCORPORATE REVISIONS REQUESTED BY U.S. ARMY, ADD NEW NOTE FOR CAD PLATING, ADD USAGE NOTE, UPDATE REFERENCES, UPDATE TO ASME Y14.5-2018, ADD OPTION FOR ZINC-NICKEL PLATING.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD AN121501 THRU AN121525 REV. 2, NOTICE 1. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL'S) MAY CONTINUE TO BE MANDATORY FOR DoD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

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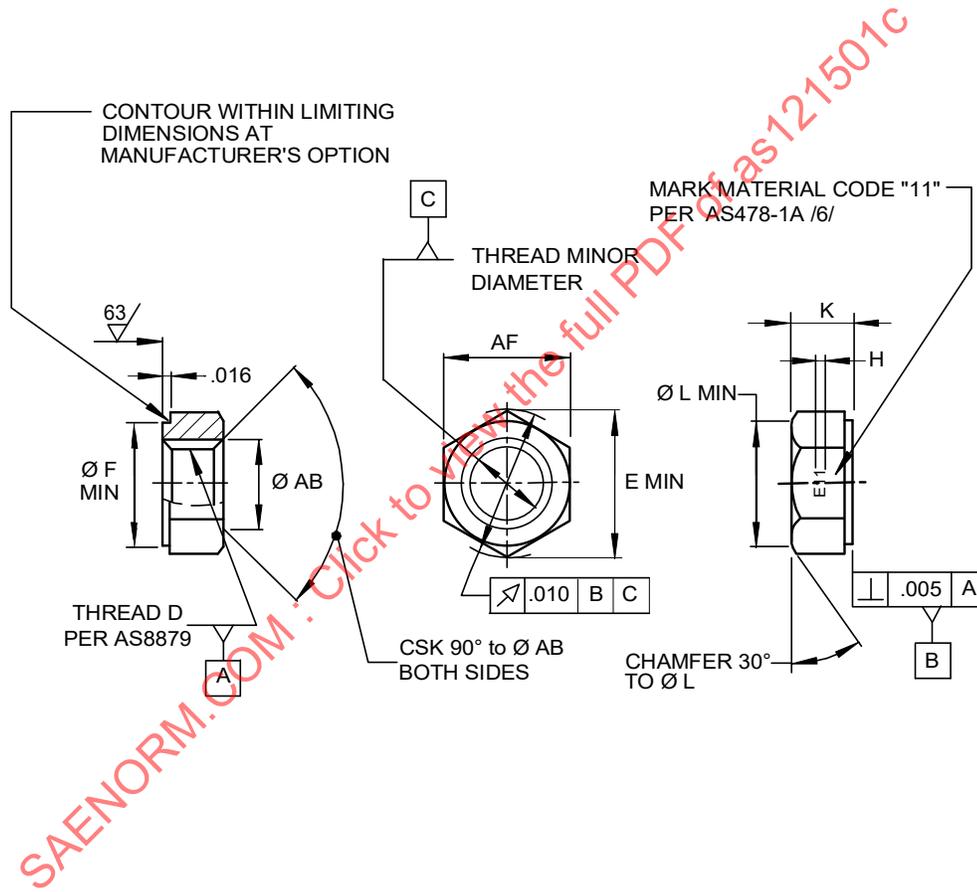
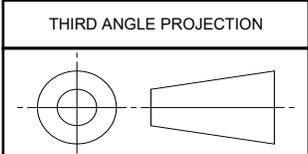


FIGURE 1 - NUT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS121501C/>



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE



AEROSPACE STANDARD

NUT, PLAIN - HEXAGON,
STEEL UNS G87400,
CADMIUM PLATED, 125 KSI MIN

AS121501™ THRU
AS121525™
SHEET 1 OF 3

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TABLE 1 - PART NUMBERS AND DIMENSIONS

BASIC PART NUMBER /10/	D NOMINAL THREAD	AF	E MIN	F MIN	AB	K	H	L MIN	APPROX MASS LB/100
AN121501	.1900-32 UNJF-3B	.367- .376	.410	.365	.190- .220	.156	.040-.080	.365	.40
AN121502	.2500-28 UNJF-3B	.429- .439	.480	.428	.250- .280	.219	.040-.080	.428	.80
AN121503	.3125-24 UNJF-3B	.492- .502	.552	.490	.312- .342	.266	.090-.150	.490	1.10
AN121504	.3750-24 UNJF-3B	.554- .564	.623	.552	.375- .405	.328	.090-.150	.552	1.60
/1/ AN121505	.4375-20 UNJF-3B	.616- .627	.694	.615	.438- .468	.375	.090-.150	.615	2.20
AN121506	.5000-20 UNJF-3B	.741- .752	.836	.740	.500- .535	.438	.090-.150	.740	3.90
AN121507	.5625-18 UNJF-3B	.865- .877	.978	.865	.562- .597	.484	.090-.150	.865	6.10
AN121508	.6250-18 UNJF-3B	.928- .940	1.050	.928	.625- .660	.547	.090-.150	.928	7.60
AN121509	.7500-16 UNJF-3B	1.052-1.064	1.191	1.052	.750- .785	.656	.090-.150	1.052	10.80
AN121510	.8750-14 UNJF-3B	1.239-1.252	1.405	1.240	.875- .910	.766	.090-.150	1.240	13.90
AN121511	1.0000 -12 UNJF-3B	1.427-1.440	1.619	1.428	1.000-1.035	.875	.090-.150	1.428	17.00
AN121512	.4375-20 UNJF-3B	.678- .690	.765	.678	.438- .468	.375	.090-.150	.678	2.40

/1/ PART NUMBER AN121505 INACTIVE FOR NEW DESIGNS AFTER 25 MARCH 1955. USE AN121512.

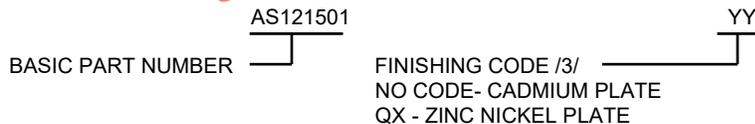
NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

- MATERIAL: STEEL PER AMS6322 (UNS G87400).
- HARDNESS: 19 TO 26 HRC. PARTS SHALL BE HARDENED (OIL QUENCHED) AND TEMPERED BEFORE THREADING.
- FINISH:
 - NO FINISH CODE LETTER - DIFFUSED NICKEL CADMIUM PLATE PER AMS2416. DIMENSIONS APPLY AFTER PLATING.
 - FINISH CODE LETTER QX - ZINC NICKEL PLATE PER MIL-PRF-32647, TYPE K16. DIMENSIONS APPLY AFTER PLATING.
- MAGNETIC PARTICLE INSPECTION PER ASTM E1444/E1444M.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
- MARKING: MULTIPLE MARKING OF BAR STOCK PERMISSIBLE. DUPLICATION OF WHOLE OR PART OF SYMBOL OR OFFSET OF SYMBOL SUCH THAT UPPER PORTION APPEARS BELOW LOWER PORTION ON FINISHED PART IS PERMISSIBLE PROVIDED POSITIVE IDENTIFICATION IS SHOWN. PARTS SHALL BE MARKED BEFORE THREADING.
- BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ±.010, ANGULAR DIMENSIONS ±5°.
- DIMENSIONING AND TOLERANCING PER ASME Y14.5M -2018.

/10/ PART NUMBERS:



- DO NOT USE UNASSIGNED PART NUMBERS.
- UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- CADMIUM IS AN R1 AND D1 SUBSTANCE IN THE AEROSPACE AND DEFENSE DECLARABLE SUBSTANCE LIST. ZINC-NICKEL PLATE PER MIL-PRF-32647, TYPE K16 IS THE PREFERRED FINISH. ADD "QX" AT THE END OF THE PART NUMBER TO DESIGNATE ZINC-NICKEL PLATING.

	AEROSPACE STANDARD	AS121501™ THRU AS121525™ SHEET 2 OF 3	REV. C
	NUT, PLAIN - HEXAGON, STEEL UNS G87400, CADMIUM PLATED, 125 KSI MIN		