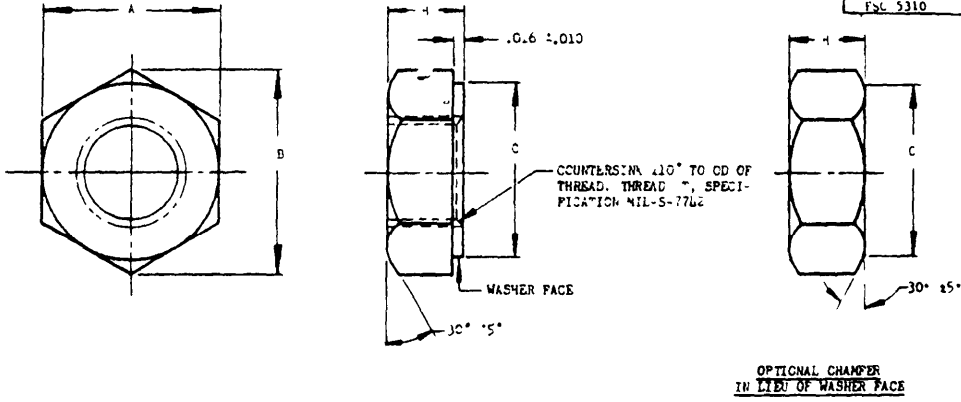


USER SYMBOLS  
NAVY - AS  
AIR FORCE - 82

REVISER SYMBOLS  
ARMY - MC  
DSA - IS



OPTIONAL CHAMFER  
IN LIEU OF WASHER FACE

AN PART NUMBERS				THREAD T	(b) A		(c) B REF	C DIA		(d) H	
ALLOY STEEL	CORROSION- RESISTANT STEEL	BRASS	(f) ALUMINUM ALLOY		MAX	MIN		MAX	MIN	MAX	MIN
AN345-0	AN345C0	AN345B0	<del>AN345D0</del>	NO. 0-80 UNF-2B	.156	.150	.180	.156	.140	.050	.043
AN345-1	AN345C1	AN345B1	<del>AN345D1</del>	NO. 1-72 UNF-2B	.156	.150	.180	.156	.140	.050	.043
AN345-2	AN345C2	AN345B2	<del>AN345D2</del>	NO. 2-64 UNF-2B	.188	.180	.217	.188	.162	.066	.057
AN345-3	AN345C3	AN345B3	<del>AN345D3</del>	NO. 3-56 UNF-2B	.188	.180	.217	.188	.162	.066	.057
AN345-4	AN345C4	AN345B4	<del>AN345D4</del>	NO. 4-48 UNF-2B	.250	.241	.289	.250	.225	.098	.087
AN345-5	AN345C5	AN345B5	<del>AN345D5</del>	NO. 5-40 UNF-2B	.312	.303	.362	.312	.283	.121	.105
AN345-6	AN345C6	AN345B6	<del>AN345D6</del>	NO. 6-40 UNF-2B	.312	.303	.362	.312	.283	.121	.105
AN345-8	AN345C8	AN345B8	<del>AN345D8</del>	NO. 8-36 UNF-2B	.344	.332	.398	.344	.320	.130	.117
AN345-10	AN345C10	AN345B10	<del>AN345D10</del>	NO. 10-32 UNF-2B	.375	.362	.431	.375	.346	.130	.117
AN345-16	AN345C16	AN345B16	AN345D16	1/4-28 UNF-2B	.438	.423	506	.438	.394	.193	.178
AN345-24	AN345C24	AN345B24	<del>AN345D24</del>	5/16-24 UNF-2B	.563	.545	650	.563	.507	.225	.208
AN345-36	AN345C36	AN345B36	<del>AN345D36</del>	3/8-24 UNF-2B	.625	.607	722	.625	.563	.257	.239

- (a) CLASS 2 THREADS MAY BE SUBSTITUTED FOR CLASS 2B THREADS UNTIL EXISTING STOCKS OF THE NUTS WITH CLASS 2 THREADS ARE EXHAUSTED
- (b) FOR ALUMINUM ALLOY NUTS, TOLERANCES ON A MAY CONFORM TO APPLICABLE MATERIAL SPECIFICATIONS FOR BAR AND ROD.
- (c) REFERENCE DIMENSIONS ARE FOR DESIGN PURPOSES ONLY AND ARE NOT AN INSPECTION REQUIREMENT
- (d) THE H DIMENSION SHALL BE MEASURED AT A POINT APPROXIMATELY HALFWAY BETWEEN THE MINOR DIAMETER OF THE HOLE AND THE FLAT OF THE NUT.
- (e) NUMBERS 1, 2, 3, 4, 5, 6, AND 8 SIZES ARE NOT RECOMMENDED FOR NEW DESIGN
- (f) ALUMINUM ALLOY NUTS INACTIVE FOR DESIGN AFTER 19 JULY 1955.

FOR DEFINITION AND APPLICATION OF DRAWING STATUS NOTES, SEE ANA BULLETIN NO. 337

MATERIAL STEEL, 50,000-PSI TENSILE STRENGTH, MINIMUM, COMMERCIAL GRADE CORROSION-RESISTANT STEEL, SPECIFICATION AN-CG-S-770, CONDITION QT, CLASS II (431) OR SPECIFICATION MIL-S-7720, COMPOSITION FM (303)  
BRASS, COMMERCIAL GRADE.  
(f) ALUMINUM ALLOY, SPECIFICATION QQ-A-266 OR QQ-A-355

HEAT TREAT: (f) ALUMINUM ALLOY, 62,000 PSI TENSILE STRENGTH, MINIMUM, SPECIFICATION MIL-H-6088

FINISH STEEL, CADMIUM PLATE, SPECIFICATION QQ-P-116, TYPE II, CLASS 3.  
CORROSION-RESISTANT STEEL, PASSIVATE.  
BRASS, NONE  
(f) ALUMINUM ALLOY, ANODIZE, SPECIFICATION MIL-A-8625

NUTS SHALL BE FREE OF ALL LOOSE OR HANGING BURRS OR SLIVERS WHICH MIGHT BECOME DISLOADED UNDER USAGE

DIMENSIONS IN INCHES

IN CASE OF CONFLICT, THE REQUIREMENTS SPECIFIED HEREON SHALL TAKE PRECEDENCE OVER THE REQUIREMENTS SPECIFIED IN SPECIFICATION MIL-S-933

- ⑥ INACTIVE FOR DESIGN AFTER 31 MARCH 1970, USE MS35650
- ⑥ CANCELED AFTER 31 MARCH 1970, EXCEPT ALUMINUM ALLOY, AND DASH NOS 1, 3, AND 5 IN ALL MATERIALS, SEE INTERCHANGEABILITY TABLE ON MS35650 FOR SUBSTITUTIVE PARTS

PROCUREMENT  
SPECIFICATION

AIR FORCE-NAVY AERONAUTICAL STANDARD

MIL-S-933

NUT, PLAIN, HEXAGON,  
NON-STRUCTURAL, FINE THREAD

AN345

SUPERSEDED FORMER AIR FORCE AND NAVY  
STANDARD SPECIFICATIONS OF AN 345

\*Revision/year information is current as of the date of this document.  
 For future combination of changes to this document draft circulation  
 should be based on the information in the current DDB195.

This military standard is mandatory for use by all Departments  
 & Agencies of the Department of Defense. Subscriptions for all new  
 engineering and design applications and for reprints use shall  
 be made from this document.

APPROVED 22 Jul 63 REVISED 1 12 Jan 64 2 17 Apr 65 3 14 Jul 65 4 19 Jan 66 5 10 Jun 66 6 31 March 1970

NOTICE  
OF VALIDATION

INCH POUND  
AN345  
NOTICE 1  
01 November 1989

MILITARY SPECIFICATION SHEET

NUT, PLAIN, HEXAGON, NON-STRUCTURAL, FINE THREAD

AN345 Rev6, dated 31 Mar 1970, remains inactive for new design, however, the document is valid for acquisition when needed.

Preparing activity  
Navy-AS

AMSC N/A

FSC 5310

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