

INCH-POUND

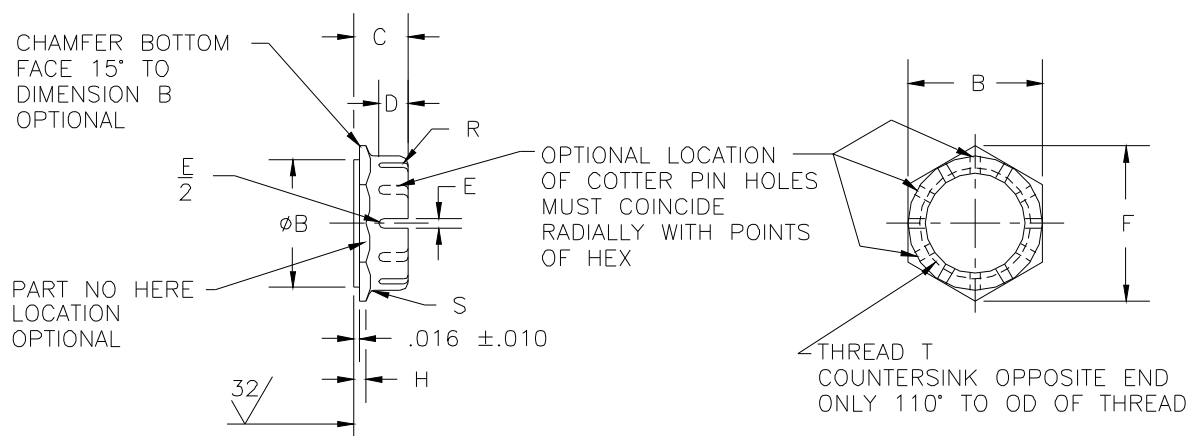
MS21025F
 6 November 1996
 Superseding
 MS21025E
 9 April 1983

MILITARY SPECIFICATION SHEET

NUT, CASTELLATED, HEXAGON

This specification is approved for use by all Departments
 and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist
 of this specification sheet and the issue of the following specification listed
 in that issue of the Department of Defense Index of Specifications and
 Standards (DoDISS) specified in the solicitation: FF-N-836



(F) Entire document revised

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Table I. Dimensions and Dash Numbers.

DASH NO	THREAD T			Ø B	C	D	E	F REF	H	R RAD	S RAD
	SIZE DESIGNATION UN-3B	PITCH DIA									
15	.9375-16	.8969	+.0049 -.0000	1.250	.531	.219	.156	1.448	.250	.062	.094
16	1.0000-16	.9594	+.0049 -.0000	1.250	.500	.250	.156	1.448	.250	.062	.125
20	1.2500-16	1.2094	+.0050 -.0000	1.500	.562	.250	.156	1.732	.250	.062	.125
23	1.4375-16	1.3969	+.0051 -.0000	1.688	.562	.312	.156	1.948	.250	.062	.125
24	1.5000-16	1.4594	+.0051 -.0000	1.750	.562	.312	.156	2.021	.250	.062	.125
28	1.7500-16	1.7094	+.0052 -.0000	2.125	.562	.312	.172	2.454	.250	.062	.125
31	1.9375-16	1.8969	+.0052 -.0000	2.250	.594	.312	.172	2.596	.250	.062	.125
32	2.0000-16	1.9594	+.0052 -.0000	2.250	.656	.312	.172	2.596	.250	.062	.125
39	2.4375-16	2.3969	+.0054 -.0000	2.875	.812	.406	.203	3.319	.250	.125	.188
47	2.9375-16	2.8969	+.0054 -.0000	3.500	.812	.375	.203	4.060	.250	.125	.188
55	3.4375-16	3.3969	+.0056 -.0000	4.000	1.000	.438	.203	4.619	.250	.125	.188
71	4.4375-16	4.3969	+.0059 -.0000	5.000	1.500	.625	.203	5.774	.375	.125	.250

REQUIREMENT:

1. Material: Alloy Steel grades 4140 (UNS G41400) or 8740 (UNS G87400) in accordance with ASTM A29, AMS 6382, AMS 6322, AMS 6325, AMS 6327, or MIL-S-5626.
2. Plating: Cadmium plate in accordance with QQ-P-416 type II, class 2 or zinc plate in accordance with ASTM B633 type III, Fe/Zn 8 or 12.
3. Heat treatment: Shall be in accordance with MIL-H-6875 to Rockwell hardness Rc 30-34.
4. Surface texture: Shall be Ra 125 microinches in accordance with ANSI/ASME B46.1.
5. Thread: Shall be 16 thread series constant pitch (16-UN) class 3B in accordance with ASME B1.1 unless otherwise specified. Thread acceptability shall be in accordance with ASME B1.3M system 21.
6. EXAMPLE OF PART NUMBER:

MS21025-16 - 1.000-16UN-3B ALLOY STEEL, CADMIUM PLATE NUT
MS21025-16Z - 1.000-16UN-3B ALLOY STEEL, ZINC PLATE NUT

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NOTES:

1. Dimensions in inches, unless otherwise specified, tolerance: decimal $\pm .016$.
2. Interpret drawing in accordance with ASME Y14.5M.
3. Break all sharp edges .003 to .005 and remove all burrs and slivers.
4. Alloy steel nuts shall be cadmium plated, no additional code required. Alloy steel nuts requiring zinc plate add the letter "Z" at the end of the part number.
5. 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.
6. Unless otherwise specified, issues of referenced documents are those in effect at the time of solicitation.
7. Nuts manufactured to revision "E" are acceptable up to two years from the date of revision "F".

MILITARY INTEREST

Custodians:

Air Force - 99

Army - AV

Navy - AS

Preparing Activity:

DLA - IS

(PROJECT: 5310-2294)