



ACCEPTABLE DESIGNS

TABLE I

NOMINAL SIZE OR BASIC MAJOR DIAMETER OF THREAD	1/4 .2500	5/16 .3125	3/8 .3750	7/16 .4375	1/2 .5000	9/16 .5625	5/8 .6250	3/4 .7500	7/8 .8750	1. 1.0000
THREADS PER INCH	20	18	16	14	13	12	11	10	9	8
WIDTH ACROSS FLATS F	NOM. 7/16 MAX. .4375 MIN. .428	1/2 .5000 .489	9/16 .5625 .551	11/16 .6875 .675	3/4 .7500 .736	7/8 .8750 .861	15/16 .9375 .922	1-1/8 1.1250 1.088	1-5/16 1.3125 1.269	1-1/2 1.5000 1.450
WIDTH ACROSS CORNERS G	MAX. .505 MIN. .488	.577 .557	.650 .628	.794 .768	.866 .840	1.010 .982	1.083 1.051	1.299 1.240	1.516 1.447	1.732 1.653
H THICKNESS	NOM. 7/32 MAX. .226 MIN. .212	17/64 .273 .258	21/64 .337 .320	3/8 .385 .365	7/16 .441 .427	31/64 .496 .473	35/64 .559 .535	41/64 .665 .617	3/4 .776 .724	55/64 .887 .831
MATERIAL	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
STEEL, CORROSION RESISTING	1	2	3	4	5	6	7	8	9	10

  

NOMINAL SIZE OR BASIC MAJOR DIAMETER OF THREAD	1-1/8 1.1250	1-1/4 1.2500	1-3/8 1.3750	1-1/2 1.5000	1-3/4 1.7500	2. 2.0000	2-1/4 2.2500	2-1/2 2.5000	2-3/4 2.7500	3 3.0000
THREADS PER INCH	7	7	6	6	5	4-1/2	4-1/2	4	4	4
WIDTH ACROSS FLATS F	NOM. 1-11/16 MAX. 1.6875 MIN. 1.631	1-7/8 1.8750 1.812	2-1/16 2.0625 1.994	2-1/4 2.2500 2.175	2-5/8 2.6250 2.538	3. 3.0000 2.900	3-3/8 3.3750 3.262	3-3/4 3.7500 3.625	4-1/8 4.1250 3.988	4-1/2 4.5000 4.350
WIDTH ACROSS CORNERS G	MAX. 1.949 MIN. 1.859	2.165 2.066	2.382 2.273	2.598 2.480	3.031 2.893	3.404 3.306	3.897 3.719	4.330 4.133	4.763 4.546	5.196 4.959
H THICKNESS	NOM. 31/32 MAX. .999 MIN. .939	1-1/16 1.094 1.030	1-11/64 1.206 1.138	1-9/32 1.317 1.245	1-1/2 1.540 1.460	1-23/32 1.763 1.675	1-59/64 1.970 1.874	2-9/64 2.193 2.089	2-23/64 2.415 2.303	2-37/64 2.638 2.518
MATERIAL	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
STEEL, CORROSION RESISTING	11	12	13	14	15	16	17	18	19	20

NOTE: For material, protective coating, and other pertinent data see sheet 2.

Ⓢ FOR CHANGES SEE SHEETS 1 AND 2.

REVISION: MI, AT, ME, AV, MO, CL, 65, 18, NSA  
 USER: SH, MC  
 This military standard has been approved by the Department of Defense and is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 20 JAN 1964 REVISED 17 NOV 1966 29 JAN 1985

P.I. VC OR: Cont 82	TITLE <b>NUT, PLAIN, HEXAGON-STEEL, CORROSION RESISTING, 300 SERIES, PASSIVATED, UNC-2B</b>	<b>MILITARY STANDARD</b> <b>MS 51971</b>
PROCEDURE SPECIFICATION PP-N-836	SUPERSEDES MS1620J (SHIPS) in part MS35680 in part and BUNCL in part	SHEET 1 OF 2

- ⓑ **MATERIAL:** Steel, Corrosion Resisting, 300 series in accordance with procurement specification.
- PROTECTIVE COATING:** Passivate in accordance with Specification QQ-P-35.
- MAGNETIC PERMEABILITY:** These fasteners have a magnetic permeability of 2.0 maximum (air = 1.0) for a field strength of H = 200 Oersted using a magnetic indicator per MIL-I-17214.
- THREADS:** Threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H-28.
- DIMENSIONS:** All dimensions are in inches unless otherwise specified.
- PART NUMBER:** The MS part number consists of the MS number, plus the dash number.  
Example: MSS1971-1
- NOTES:** (1) For design feature purposes, this standard takes precedence over procurement documents referenced herein.  
(2) Referenced documents shall be of the issue in effect on date of invitations for bid.

**INTERCHANGEABILITY TABLE**

The following nuts covered by dash numbers given in MS35690 are cancelled after the date indicated on the cancelled document. Use the dash numbers given in the preceding sheet. The cancelled nuts cannot always replace the new nuts and should be used until existing stocks are depleted. Use only the new nuts for design and replacement. Replacement shall be in accordance with Table II. Interchangeability information regarding part numbers on the superseded drawing is also contained in this table.

TABLE II

CANCELLED MS35690	SUPERSEDING MSS1971	CANCELLED MS35690	SUPERSEDING MSS1971	CANCELLED MS35690	SUPERSEDING MSS1971
DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER
410	1	1210	8	2810	15
510	2	1410	9	3210	16
610	3	1610	10	3610	17
710	4	1810	11	4010	18
810	5	2010	12	4410	19
910	6	2210	13	4810	20
1010	7	2410	14		

ⓑ **INTERCHANGEABILITY TABLE**

The following nuts covered by dash numbers given in MS1620J(Ships) are cancelled after the date indicated on the cancelled document. Use the dash numbers given in the preceding sheet. The cancelled nuts cannot always replace the new nuts and should be used until existing stocks are depleted. Use only the new nuts for design and replacement. Replacement shall be in accordance with Table III. Interchangeability information regarding part numbers on the superseded drawing is also contained in this table.

TABLE III

CANCELLED MS1620J(SHIPS)	SUPERSEDING MSS1971	CANCELLED MS1620J(SHIPS)	SUPERSEDING MSS1971	CANCELLED MS1620J(SHIPS)	SUPERSEDING MSS1971
DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER
-1	-1	-5	-5	-9	-10
-2	-2	-6	-7	-10	-11
-3	-3	-7	-8	-11	-12
-4	-4	-8	-9	-12	-14

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

P.A. VC Other Cont 82 ⓑ	TITLE NUT, PLAIN, HEXAGON-STEEL, CORROSION RESISTING, 300 SERIES, PASSIVATED, UNC-2B	<b>MILITARY STANDARD</b> <b>MS51971</b>
PROCUREMENT SPECIFICATION FF-N-836	SUPERSEDED MS35690 in part (SHIPS) in part.	SHEET 2 OF

APPROVED 20 JAN 64 REVISED 17 NOV 66 ⓑ FOR CHANGES SEE SHEETS 1 AND 2.