

ACCEPTABLE DESIGNS

TABLE I

NOMINAL SIZE OR BASIC MAJOR DIAMETER OF THREAD	1/4 .2500	3/16 .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
F WIDTH ACROSS FLATS	NOM. 7/16 MAX. .4375 MIN. .428	1/2 .5000 .489	9/16 .5625 .551	11/16 .6875 .675	3/4 .7500 .738	7/8 .8750 .861	15/16 .9375 .922	1-1/8 1.1250 1.098	1-3/16 1.3125 1.289	1-1/2 1.5000 1.450
G WIDTH ACROSS CORNERS	MAX. .505 MIN. .488	.577 .557	.650 .629	.794 .768	.906 .880	1.010 .982	1.093 1.051	1.299 1.240	1.516 1.447	1.732 1.651
H THICKNESS	NOM. 7/32 MAX. .225 MIN. .212	17/64 .271 .258	21/64 .337 .320	3/4 .395 .383	7/16 .448 .427	11/64 .596 .573	15/64 .739 .715	19/64 .891 .867	1/4 .778 .724	15/64 .447 .411
MATERIAL	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
STEEL, CARBON GRADE	B C	3 6	4 9	11 12	14 15	17 18	20 21	23 24	25 26	27 28

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
F WIDTH ACROSS FLATS	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 3.282	3-1/2 3.7500 3.625	4-1/8 4.1250 3.988	4-1/2 4.5000 4.350
G WIDTH ACROSS CORNERS	MAX. 1.949 MIN. 1.839	2.165 2.066	2.392 2.273	2.599 2.490	3.021 2.893	3.464 3.306	3.897 3.719	4.330 4.133	4.763 4.546	5.196 4.939
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 1.678	1-59/64 1.970 1.874	2-9/64 2.193 2.099	2-23/64 2.415 2.303	2-17/64 2.637 2.516
MATERIAL	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
STEEL, CARBON GRADE	B C	32 33	35 36	38 39	41 42	44 45	47 48	50 51	53 54	56 57

REVIEWER: AT, AV, CL, CS, MI, MU, NISA
USER: EL, MC, ME, VD, DS, SM

APPROVED 20 JAN 1964 REVISED (A) 10 APR 64 (B) 8 SEPT 1966 (C) 17 NOV 1966 (D) 30 MAR 1970

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.

MATERIAL: Steel, Carbon, Grade B, or C, in accordance with procurement specification. Finished nuts shall meet the required proof loads as specified in the procurement specification.

PROTECTIVE COATING: Cadmium plate in accordance with procurement specification.

THREADS: Threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H-2B.

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: MS31967-2.

NOTES: (1) Referenced documents shall be of the issue in effect on date of invitations for bid.
(2) For design feature purpose, this standard takes precedence over procurement documents referenced herein.

*CANCELLED, see Table II.

(D) For changes see sheet 2.

P.A. VC Other Case 82	TITLE NUT, PLAIN, HEXAGON-CARBON STEEL, CADMIUM PLATED, UNC-2B (IN./MM)	MILITARY STANDARD
		MS 51967
PROCUREMENT SPECIFICATION 77-N-836	SUPERSEDES MS35690 in part and SUN11 in part	SHEET 1 OF 3

INTERCHANGEABILITY TABLE

The nuts covered by the following dash numbers given in MS35690 are cancelled after 30 September 1965, as given on that document. The nuts covered by the following cancelled dash numbers given in MS51967 are cancelled after 8 SEPT 1966. 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.

TABLE II

PART NUMBER			PART NUMBER			PART NUMBER		
CANCELLED MS35690	CANCELLED MS51967	NEW MS51967	CANCELLED MS35690	CANCELLED MS51967	NEW MS51967	CANCELLED MS35690	CANCELLED MS51967	NEW MS51967
DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
	1	2		22	23	2402	43	44
402		2	1202		23	2401		44
403		2	1203		23	2405		44
405		2	1205		21	2406		44
406		2	1206		21	2408		45
404		3	1204		24	2409		45
409		3	1209		24			
	4	5		25	26		46	47
502		5	1402		26	3202		47
503		5	1403		26	3203		47
505		5	1405		26	3205		47
506		5	1406		26	3206		47
508		6	1408		27	3208		48
509		6	1409		27	3209		48
	7	8		28	29		49	50
602		8	1602		29	3402		50
603		8	1603		29	3403		50
605		8	1605		29	3405		50
606		8	1606		29	3406		50
608		9	1608		30	3408		51
609		9	1609		30	3409		51
	10	11		31	32		52	53
702		11	1802		32	4002		53
703		11	1803		32	4003		53
705		11	1805		32	4005		53
706		11	1806		32	4006		53
704		12	1804		33	4008		54
709		12	1809		33	4009		54
	13	14		34	35		55	56
802		14	2002		35	4402		56
803		14	2003		35	4403		56
805		14	2005		35	4405		56
806		14	2006		35	4406		56
808		15	2008		36	4408		57
809		15	2009		36	4409		57
	16	17		37	38		58	59
902		17	2202		38	4802		59
903		17	2203		38	4803		59
905		17	2205		38	4805		59
906		17	2206		38	4806		59
908		18	2208		39	4808		60
909		18	2209		39	4809		60
	19	20		40	41			
1002		20	2402		41			
1003		20	2403		41			
1005		20	2405		41			
1006		20	2406		41			
1008		21	2408		42			
1009		21	2409		42			

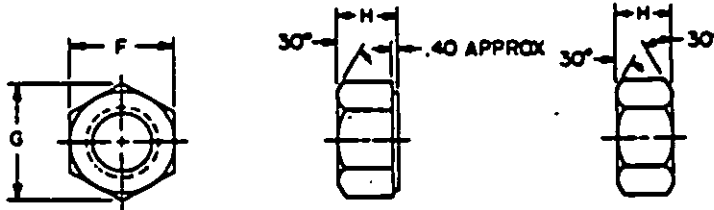
NOTE: For material, protective coating, and other pertinent data, see sheet 1.

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REVIEWER: AT, AV, CL, IS, MI, MU, NWSA
USER: EL, MC, ME, YD, OS, GH

APPROVED 20 JAN 1964 REVISED (A) 10 APR 1964 (B) 8 SEP 1966 (C) 17 NOV 1966 (D) FOR CHANGES SEE SHEET 3

P.A. VC Other Code 62	TITLE NUT, PLAIN, HEXAGON — CARBON STEEL, CADMIUM PLATED, UNC-2B (IN./MM)	MILITARY STANDARD MS51967
PROCUREMENT SPECIFICATION FP-N-436	SUPERSEDES MS35690 in part and SUN1 in part	SHEET 2 OF



ACCEPTABLE DESIGNS

TABLE III
METRIC TRANSLATION OF TABLE I

NOMINAL SIZE	INCH MM	1/4 6.350	5/16 7.938	3/8 9.525	7/16 11.112	1/2 12.700	9/16 14.288	5/8 15.875	3/4 19.050	7/8 22.225	1 25.400
THREADS PER 25.4 MM		20	18	16	14	13	12	11	10	9	8
F WIDTH ACROSS FLATS	NOM	11.112	12.700	14.288	17.462	19.050	22.225	23.812	28.575	33.338	38.100
	MAX	11.112	12.700	14.288	17.462	19.050	22.225	23.812	28.575	33.338	38.100
	MIN	10.871	12.421	13.995	17.145	18.644	21.869	23.419	27.835	32.733	36.830
C WIDTH ACROSS CORNERS	MAX	12.827	14.656	16.510	20.164	21.996	25.654	27.508	32.895	38.506	43.993
	MIN	12.375	14.148	15.931	19.507	21.336	24.943	26.693	31.496	36.734	41.986
H THICKNESS	NOM	5.556	6.747	8.334	9.525	11.112	12.703	15.891	16.272	19.050	21.828
	MAX	5.740	6.934	8.560	9.779	11.379	12.988	14.199	16.891	19.710	22.530
	MIN	5.385	6.553	8.128	9.271	10.846	12.014	13.589	15.672	18.190	21.107

MATERIAL

DASH NUMBER

GRADE B	2	5	8	11	14	17	20	23	26	29
GRADE C	3	6	9	12	15	18	21	24	27	30

NOMINAL SIZE	INCH MM	1-1/8 28.575	1-1/4 31.750	1-3/8 34.925	1-1/2 38.100	1-3/4 44.450	2 50.800	2-1/4 57.150	2-1/2 63.500	2-3/4 69.850	3 76.200
THREADS PER 25.4 MM		7	7	6	6	5	4-1/2	4-1/2	4	4	4
F WIDTH ACROSS FLATS	NOM	42.862	47.625	52.388	57.150	66.675	76.200	85.725	95.250	104.775	114.300
	MAX	42.862	47.625	52.388	57.150	66.675	76.200	85.725	95.250	104.775	114.300
	MIN	41.427	46.025	50.648	55.245	64.465	73.640	82.835	92.075	101.295	110.490
C WIDTH ACROSS CORNERS	MAX	49.505	54.991	60.505	65.989	76.987	87.986	98.984	109.982	120.980	131.978
	MIN	47.219	52.476	57.734	62.992	73.482	83.972	94.463	104.978	115.468	125.959
H THICKNESS	NOM	24.608	28.988	29.767	32.538	38.100	43.662	48.819	54.370	59.919	65.482
	MAX	25.375	27.788	30.632	33.452	39.116	44.780	50.038	55.702	61.341	67.005
	MIN	23.831	26.162	28.903	31.623	37.084	42.345	47.600	53.061	58.496	63.957

MATERIAL

DASH NUMBER

GRADE B	32	35	38	41	44	47	50	53	56	59
GRADE C	33	36	39	42	45	48	51	54	57	60

NOTE:

All dimensions are in millimeters (MM), unless otherwise specified.

Ⓢ SHEET 3 ADDED

APPROVED 20 JAN 1964 REVISED Ⓢ FOR CHANGES SEE SHEET 3

REVISION: 1. AT, AV, CL, IS, MI, MU, MSA
SERIES: MC, ME, VD, OS, SW
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P.A. VC Other Cont 82	TITLE NUT, PLAIN, HEXAGON-CARBON STEEL, CADMIUM PLATED, UNC-2B (IN./MM)	MILITARY STANDARD
		MS 51967
PROCUREMENT SPECIFICATION PP-N-436	NUMERICAL IDENTIFICATION MS35490 in part and SUX1 in part.	SHEET 3 OF 3