



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	
THREADS PER INCH		28	24	24	20	20	18	18	
F	WIDTH ACROSS FLATS	NOM.	7/16	1/2	9/16	11/16	3/4	7/8	15/16
		MIN.	.4375 .4280	.5000 .4890	.5625 .5510	.6875 .6750	.7500 .7360	.8750 .8610	.9375 .9220
G	WIDTH ACROSS CORNERS	MAX.	.505	.577	.650	.794	.866	1.010	1.083
		MIN.	.448	.557	.628	.768	.840	.982	1.051
H	THICKNESS	NOM.	7/32	17/64	21/64	3/8	7/16	31/64	35/64
		MIN.	.226 .212	.273 .258	.337 .320	.385 .365	.448 .427	.496 .473	.559 .535
MATERIAL		DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
BRASS		1	2	3	4	5	6	7	

NOMINAL SIZE OR BASIC MAJOR DIAMETER OF THREAD		3/4 .7500	7/8 .8750	1 1.000	1-1/8 1.1250	1-1/4 1.2500	1-3/8 1.3750	1-1/2 1.5000	
THREADS PER INCH		16	14	12	12	12	12	12	
F	WIDTH ACROSS FLATS	NOM.	1-1/8	1-5/16	1-1/2	1-11/16	1-7/8	2-1/16	2-1/4
		MIN.	1.1250 1.0880	1.3125 1.2690	1.5000 1.4500	1.6875 1.6310	1.8750 1.8120	2.0625 1.9940	2.2500 2.1750
G	WIDTH ACROSS CORNERS	MAX.	1.299	1.516	1.732	1.949	2.165	2.382	2.598
		MIN.	1.240	1.447	1.653	1.859	2.066	2.273	2.480
H	THICKNESS	NOM.	41/64	3/4	55/64	31/32	1-1/16	1-11/64	1-9/32
		MIN.	.665 .617	.776 .724	.887 .831	.999 .939	1.094 1.030	1.206 1.138	1.317 1.245
MATERIAL		DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
BRASS		8	9	10	11	12	13	14	

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

(A) For changes see sheets 1 and 2.

This military standard is approved 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.

REVIEWER: AT, AV, IS, ME, NSA, II  
USER: CL, MC, MI, YD

P.A. Other Cust WC SH R2	TITLE	MILITARY STANDARD
	NUT, PLAIN, HEXAGON-BRASS, (A) BLACK CHEMICAL FINISH, UNF-2B	MS 51970
PROCUREMENT SPECIFICATION EPL-225	SUPERSEDES: MS35690 11. part	SHEET 1 OF 2

NOTES:

1. **MATERIAL:** Brass, Naval, in accordance with QQ-B-637, alloy no. 462, hard or alloy no. 464, half-hard.
2. **PROTECTIVE COATING:** Black chemical finish in accordance with MIL-F-495.
3. **THREADS:** The threads shall be in accordance with Screw-Thread Standards For Federal Services, Handbook H28.
4. **DIMENSIONS:** All dimensions are in inches, unless otherwise specified.
5. **PART NUMBER:** The MS part number consists of the MS number, plus the dash number.  
Example: MS51970-1.
6. Referenced documents shall be of the issue in effect on date of invitations for bid.
7. For design feature purposes, this standard takes precedence over procurement documents referenced herein.

REVIEWER: AT, AV, IS, ME, NSA, 11  
USER: CI, MC, MI, YD

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 document is also contained in Table II.

TABLE II

CANCELLED MS35690	NEW MS51970	CANCELLED MS35690	NEW MS51970	CANCELLED MS35690	NEW MS51970
DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
431	1	731	4	1631	10
432	1	831	5	1831	11
531	2	931	6	2031	12
532	2	1031	7	2231	13
631	3	1231	8	2431	14
632	3	1431	9		

This military standard is approved 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.

☆ U. S. GOVERNMENT PRINTING OFFICE: 1972-714-536/650

APPROVED 20 JAN 1964 REVISED (A) FOR CHANGES SEE SHEETS 1 AND 2.

P.A. WC Other Cost SH 82	TITLE	MILITARY STANDARD
	(A) NUT, PLAIN, HEXAGON - BRASS, BLACK CHEMICAL FINISH, UNF-2B	MS51970
PROCUREMENT SPECIFICATION FF-N-R36	SUPERSEDES: MS35690 in part	SHEET 2 OF 2

