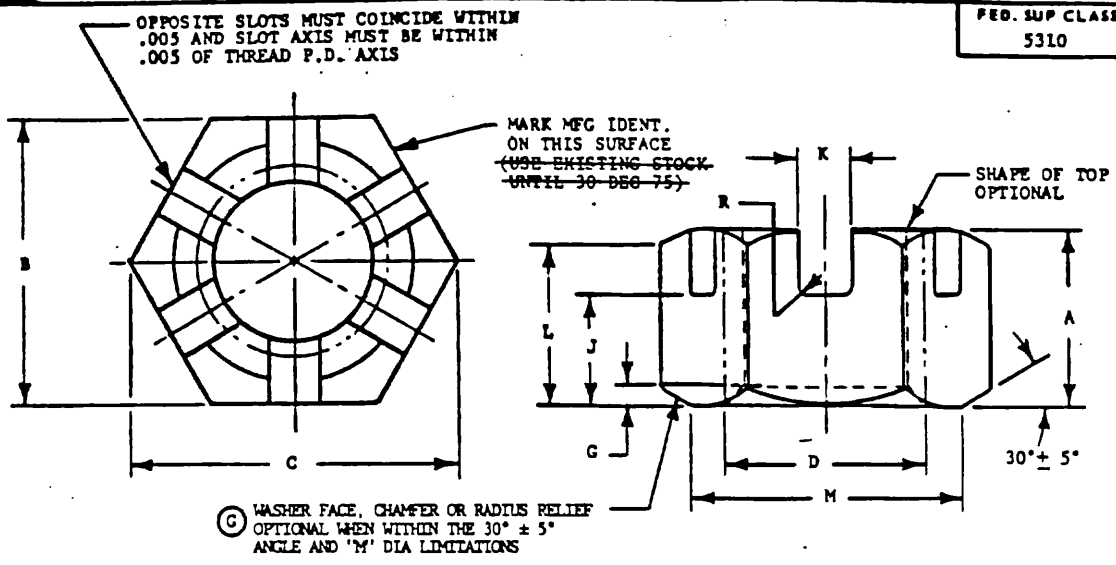


USER SYMBOLS:

REVIEWER SYMBOLS:
NAVY - AS
ARMY, MI, AR

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ⓐ WASHER FACE, CHAMFER OR RADIUS RELIEF OPTIONAL WHEN WITHIN THE 30° ± 5° ANGLE AND 'M' DIA LIMITATIONS

NOTES:

- ⓐ 1. MATERIAL: STEEL UNS G11370 (AISI 1137) PER AMS 5024
UNS G11374 (AISI 11L37) PER AMS 5020
UNS G41300 (AISI 4130) PER AMS 6348
UNS G87400 (AISI 8740) PER AMS 6322, 6323, 6325, 6327, and 6358.
- ⓐ INSERT MATERIAL: NYLON OR EQUIVALENT
- ⓐ 2. PLATING: CADMIUM PLATING IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 2 PARTS WITH CLASS 3 PLATING MAY BE FURNISHED FROM SUPPLIER'S STOCK UNTIL 1 JANUARY 1975.
- 3. BREAK ALL SHARP EDGES AND REMOVE BURRS.
- 4. SURFACE TEXTURE IN ACCORDANCE WITH ANSI B46.1 SHALL NOT EXCEED 125 MICROINCHES.
- 5. DIMENSIONS IN INCHES.
- 6. DESIGN INFORMATION: THESE NUTS MAY BE USED AT TEMPERATURES 250° F AND BELOW IN THOSE TYPES OF APPLICATIONS FOR WHICH SLOTTED OR CASTELLATED NUTS ARE APPROVED FOR USE; AND IF SUCH APPLICATIONS CONFLICT WITH ANY LIMITATION ON THE USE OF SELF-LOCKING NUTS, AS CITED BY MS33588, THIS STANDARD TAKES PRECEDENCE. NUTS ARE TO BE INSTALLED IN ACCORDANCE WITH MS33540.
- 7. EXAMPLE OF PART NUMBER: MS17825-6-2500-28 NUT, CADMIUM PLATED, NON-METALLIC INSERT.
- 8. PERFORMANCE: PER MIL-N-25027 EXCEPT FOR:
 - 1 - TABULATED ULTIMATE TENSILE STRENGTH VALUES.
 - 2 - VIBRATION PER MIL-STD-1312-7, (30,000 CYCLES) USING ASSEMBLY TORQUES LISTED IN TABLE I FOR ONE SEATED CYCLE.
 - 3 - LOCKING TORQUE VALUES APPLICABLE FOR ONE CYCLE AT ROOM TEMPERATURE ONLY.

CERTAIN PROVISIONS (LIMITS FOR ACROSS FLAT DIMENSION) OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION ABC AIR STD 17/2. WHEN REVISION OR CANCELLATION OF THIS STANDARD IS PROPOSED WHICH WILL AFFECT OR VIOLATE THE INTERNATIONAL AGREEMENT CONCERNED, THE PREPARING ACTIVITY WILL TAKE APPROPRIATE RECONCILIATION ACTION THROUGH INTERNATIONAL STANDARDIZATION CHANNELS, INCLUDING DEPARTMENTAL STANDARDIZATION OFFICES, IF REQUIRED.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS, OR REQUEST FOR PROPOSAL, EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.

ⓐ DENOTES CHANGE.

P.A. NAVY - AS Other Cust USAF - 99 ARMY - AV	INTERNATIONAL INTEREST *	TITLE	MILITARY STANDARD
		NUT, SELF-LOCKING, CASTELLATED, HEXAGON, 250°F NON-METALLIC INSERT	MS17825
PROCUREMENT SPECIFICATION MIL-N-25027 (SEE PERFORMANCE NOTE)	SUPERSEDES	MS17825(ASG)	SHEET 1 OF 2

APPROVED: 30 MAR 62 REVISED (D) 1 JUN 73 (E) 8 NOV 74 (F) 23 AUG 82 (G) 30 NOV 88

TABLE I. NUT DIMENSIONS AND STRENGTHS

SIZE DASH NO.	THREAD MIL-S-8879	A		B		C	D	G		J	
		MAX	MIN	MAX	MIN	MIN	MAX	MAX	MIN	MAX	MIN
-3	.1900-32 UNJF-3B	.265	.235	.376	.367	.410	.215	.032	.006	.125	.105
-4	.2500-28 UNJF-3B	.296	.266	.439	.430	.482	.275	.036	.007	.141	.121
-5	.3125-24 UNJF-3B	.343	.313	.502	.492	.552	.338	.042	.008	.188	.168
-6	.3750-24 UNJF-3B	.421	.391	.564	.553	.622	.400			.235	.215
-7	.4375-20 UNJF-3B	.468	.438	.690	.679	.766	.463	.050	.010	.282	.262
-8	.5000-20 UNJF-3B	.578	.548	.752	.741	.837	.525			.375	.355
-9	.5625-18 UNJF-3B	.624	.594	.877	.865	.978	.587	.055	.012	.406	.386
-10	.6250-18 UNJF-3B	.734	.704	.940	.928	1.051	.650			.484	.464
-12	.7500-16 UNJF-3B	.828	.798	1.064	1.052	1.191	.795	.063	.014	.578	.558
-14	.8750-14 UNJF-3B	.921	.891	1.252	1.239	1.403	.900	.072	.016	.672	.652
-16	1.0000-12 UNJF-3B	1.015	.985	1.440	1.427	1.615	1.025	.083	.018	.766	.746
-18	1.1250-12 UNJF-3B	1.171	1.141	1.627	1.614	1.825	1.150			.828	.808
-20	1.2500-12 UNJF-3B	1.265	1.235	1.815	1.801	2.038	1.275			.891	.871

TABLE I. (CONT'D)

SIZE DASH NO.	K		L	H			R	ULTIMATE TENSILE STRENGTH LB MIN	TEST WRENCHING TORQUE (INCH LBS)	ASSEMBLY TORQUE VIBRATION (IN. LBS)	WEIGHT LB/100
	MAX	MIN	MIN	MAX	MIN	MAX		MIN.	MAX	MAX	
-3			.110	.376	.355			1,950	35	28	.400
-4	.108	.078	.125	.439	.418	.035		3,500	80	65	.650
-5			.172	.502	.480			5,500	225	180	1,000
-6			.218	.564	.543			9,000	325	260	1,400
-7	.155	.125	.265	.690	.675	.053		12,200	575	460	2,000
-8			.359	.752	.737			16,600	900	720	3,900
-9			.390	.877	.862			21,200	1,100	880	6,900
-10			.468	.940	.925			27,400	1,600	1,300	11,400
-12			.562	1.064	1.049			40,000	2,800	2,200	16,900
-14	.187	.157	.656	1.252	1.237	.062		54,600	4,600	3,700	26,000
-16			.750	1.440	1.425			71,000	6,800	5,400	38,000
-18			.844	1.627	1.612			92,600	10,000	9,000	53,500
-20			.938	1.815	1.800			118,500	14,000	11,000	74,500

(G) BIDS SHALL BE SOLICITED ONLY FROM THE MANUFACTURERS OR DISTRIBUTORS LISTED ON QPL-25027.

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P.A. NAVY - AS Other Cust USAF - 99 ARMY - AV	INTERNATIONAL INTEREST *	TITLE NUT, SELF-LOCKING, CASTELLATED, HEXACON -250°F., NON METALLIC INSERT	MILITARY STANDARD MS17825
PROCUREMENT SPECIFICATION (SEE PART 25027)		SUPPSEDES MS17825 (ASG)	SHEET 2 OF 2

APPROVED 30 MAR 62 REVISED (G) FOR CHANGES SEE SHEET 1 AND 2