

This military standard is approved by the Department of the Air Force and the Bureau of Naval Weapons and is mandatory for use by these activities. All other military activities are required to employ this standard where suitable.

Review activities:

Navy - AS  
USAF - 11, 85

FED. SUP CLASS 5310																				
<p>OPPOSITE SLOTS MUST COINCIDE WITHIN .005 AND SLOT AXIS MUST BE WITHIN .005 OF THREAD P. D. AXIS</p> <p>WASHER FACE, CHAMFER OR RADIUS RELIEF TO HEX FLATS OPTIONAL WHEN WITHIN THE 30° ± 5° ANGLE AND "B" DIA LIMITATIONS</p> <p>SHAPE OF TOP OPTIONAL</p> <p>30° ± 5°</p>																				
SIZE DASH NO.	THREAD MIL-S-8879	A		B		C	D	G		J		K		L		M		R	ULTIMATE TENSILE STRENGTH LB MIN	WEIGHT LB/100 MAX
		MAX	MIN	MAX	MIN			MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN			
- 3	.190-32UNJF-3B	.265	.235	.376	.367	.410	.215	.032	.006	.125	.105			.110	.376	.355		2,460	.55	
- 4	.250-28UNJF-3B	.296	.266	.439	.430	.482	.275	.036	.007	.142	.121	.108	.078	.125	.439	.418	.035	4,580	.80	
- 5	.312-24UNJF-3B	.343	.313	.502	.492	.552	.338		.042	.008	.188	.166		.172	.502	.480		7,390	1.25	
- 6	.375-20UNJF-3B	.421	.391	.564	.553	.622	.400			.035	.235	.215		.218	.564	.543		11,450	1.70	
- 7	.437-20UNJF-3B	.468	.438	.690	.679	.766	.463	.050	.010	.282	.262	.155	.125	.265	.595	.575	.053	15,450	2.30	
- 8	.500-20UNJF-3B	.578	.548	.752	.741	.837	.525			.375	.355			.359	.752	.737		21,110	4.50	

MATERIAL: CORROSION AND HEAT RESISTANT STEEL (A286) COMPOSITION PER AMS 5737, AMS 5525, OR AMS 5725.

PLATING: SILVER PLATE IN ACCORDANCE WITH AMS 2411. PLATE THICKNESS MEASURED ON THE EXTERNAL SURFACE OF THE NUT, SHALL BE NOT LESS THAN .0002 INCHES; THREADS SHALL SHOW COMPLETE COVERAGE BUT THICKNESS REQUIREMENTS ON THREADS ARE WAIVED.

MAGNETIC PERMEABILITY:  
MAGNETIC PERMEABILITY SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH H=200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR IN ACCORDANCE WITH MIL-I-17211 OR EQUIVALENT.

GENERAL: BREAK ALL SHARP EDGES AND REMOVE ALL BURRS AND SLIVERS.  
SURFACE ROUGHNESS IN ACCORDANCE WITH ASA B46.1 - 1962  
UNLESS OTHERWISE SPECIFIED THE SURFACE ROUGHNESS SHALL NOT EXCEED 125 MICROINCHES.  
DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.

DESIGN INFORMATION: THESE NUTS ARE DESIGNED FOR USE WITH 3A THREADS PER MIL-S-8879.

EXAMPLE OF PART NUMBER: MS21225-4 = .2500-28 CORROSION RESISTANT STEEL NUT, SILVER PLATED.

PERFORMANCE: PER MIL-N-25027 EXCEPT FOR:  
1 - ULTIMATE TENSILE STRENGTH AS TABULATED.  
2 - VIBRATION TEST TIME FOR NUT SIZES -5 AND LARGER SHALL BE 120 MINUTES MINIMUM.  
3 - LOCKING TORQUE VALUES APPLICABLE FOR 5 CYCLES, EXCEPT ONE (1) CYCLE FOR -3 SIZE.  
4 - WRENCH TORQUE TEST VALUES TO BE DIRECTLY PROPORTIONAL TO THE ULTIMATE TENSILE STRENGTH.

QUALIFIED PRODUCTS: ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL 25027 SHALL BE USED.

CERTAIN PROVISIONS TO APPLY TO THE ACROSS FLATS DIMENSIONS OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT ABC AIR STD 17/2. WHEN REVISION OR CANCELLATION OF THIS STANDARD IS PROPOSED, THE DEPARTMENTAL CUSTODIAL WILL INFORM THEIR RESPECTIVE DEPARTMENTAL STANDARDIZATION OFFICE SO THAT APPROPRIATE ACTION MAY BE TAKEN RESPECTING THE INTERNATIONAL AGREEMENT CONCERNED.

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 BID.

P.A. Navy -AS Other Cost USAF - 11	INTERNATIONAL INTEREST	TITLE NUT, SELF-LOCKING, CASTELLATED, HEXAGON - 80° F	MILITARY STANDARD MS21225(ASG)
PROCUREMENT SPECIFICATION MIL-N-25027 (SEE PERFORMANCE NOTE)		SUPERSEDES:	SHEET 1 OF 1