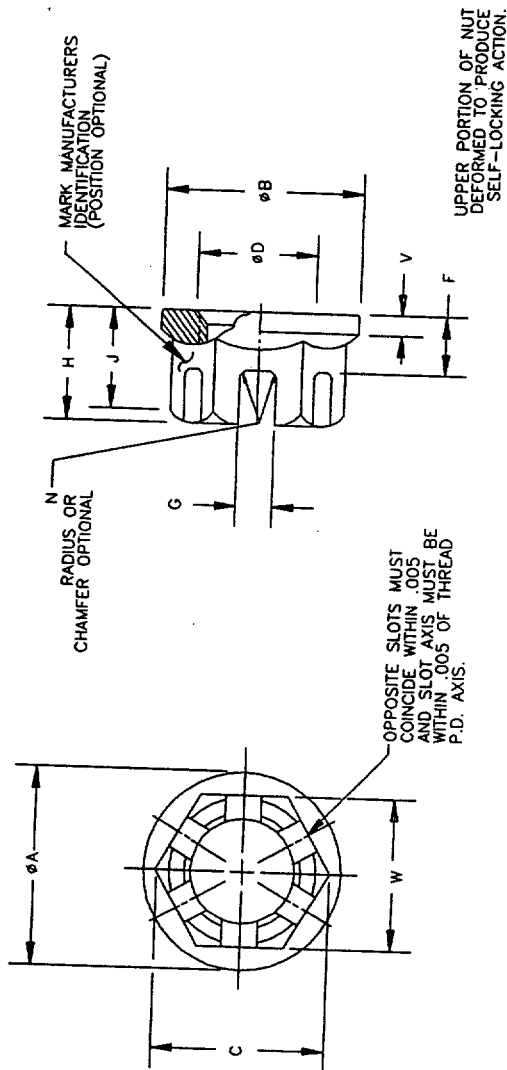


THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDS SPECIFIED IN THE SOLICITATION: MIL-N-25027

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.



(B) DENOTES CHANGES

PREPARING ACTIVITY: DLA-IS
CUSTODIANS: ARMY-AV NAVY-AS
AIR FORCE-99 DLA-
REVIEW: IS
USER:
PROJECT NUMBER: 5310-1861

DISTRIBUTION STATEMENT

A. Approved for public release; distribution is unlimited.

MILITARY SPECIFICATION SHEET

TITLE

NUT, SELF-LOCKING, LIGHTWEIGHT,
THIN, CASTELLATED, 450°F.

INCH-POUND

SPECIFICATION SHEET NUMBER

MS14145 B 27 APR 93

SUPERSEDING

MS14145 A 30 NOV 88

AMSC- N/A FSC 5310

DASH NUMBER	THREAD	ϕA	ϕB	C	ϕD	F	G	H	J	N	V	W	ULTIMATE TENSILE STRENGTH LB MIN	WEIGHT LB/100 MAX	COTTER PIN SIZE (REF)
NON DRY LUB	MIL-S-8879	MAX	MIN	MIN	MAX	+0.016	MAX	MIN	MIN	MAX	REF	MAX	MIN	MAX	MIN
3 L3	.1900-32UNJF-3B	.325	.291	.277	.220	.094	.065	.050	.173	.090	.035	.252	.243	.16	3/64
4 L4	.2500-28UNJF-3B	.420	.386	.348	.280	.094	.100	.070	.203	.100	.035	.315	.305	.25	1/16
5 L5	.3125-24UNJF-3B	.520	.482	.419	.342	.094	.100	.070	.203	.100	.035	.378	.367	.36	1/16
6 L6	.3750-24UNJF-3B	.579	.539	.480	.405	.109	.155	.125	.234	.110	.053	.440	.429	.49	3/32
7 L7	.4375-20UNJF-3B	.645	.600	.552	.467	.109	.155	.125	.234	.110	.053	.504	.492	.60	3/32
8 L8	.5000-20UNJF-3B	.770	.725	.623	.530	.141	.155	.125	.265	.120	.053	.566	.554	.95	3/32
9 L9	.5625-18UNJF-3B	.850	.815	.765	.592	.188	.186	.156	.328	.175	.062	.692	.678	1.70	1/8
10 L10	.6250-18UNJF-3B	.910	.875	.836	.655	.188	.186	.156	.328	.175	.062	.755	.741	17.060	1/8
12 L12	.7500-16UNJF-3B	1.130	1.095	.978	.785	.250	.186	.156	.390	.200	.062	.880	.865	25.010	1/8
14 L14	.8750-14UNJF-3B	1.345	1.300	1.121	.910	.313	.186	.156	.452	.250	.062	.1008	.990	34.220	1/8
16 L16	1.0000-12UNJF-3B	1.545	1.500	1.263	1.035	.375	.186	.156	.515	.300	.062	.1132	1.115	45.000	1/8
18 L18	1.1250-12UNJF-3B	1.745	1.700	1.414	1.160	.406	.186	.156	.578	.350	.062	.1257	1.239	58.350	1/8
20 L20	1.2500-12UNJF-3B	1.915	1.875	1.556	1.285	.469	.186	.156	.640	.410	.062	.1383	1.364	73.970	1/8

Form Approved
OMB No. 0704-0188

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Form Approved
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NOTES:

1. MATERIAL: STEEL UNS G10350 (AISI C1035) PER AMS 5080, QQ-S-700
 UNS G10420 (AISI C1042) PER AMS 5080
 (B) UNS G10500 (AISI 1050) PER AMS 5085
 UNS G11370 (AISI 1137) PER AMS 5024
 UNS G11374 (AISI 11L37) PER AMS 5020
 UNS G40270 (AISI 4027) PER ASTM A322
 UNS G40370 (AISI 4037) PER ASTM A322, A331, A519, A547
 UNS G87400 (AISI 8740) PER AMS 6322, AMS 6323, AMS 6325, AMS 6327, AMS 6358
2. PLATING: STEEL NUTS (WITHOUT DRY FILM LUBRICANT) CADMIUM PLATED IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 2. DRY FILM LUBRICATED STEEL NUTS IN ACCORDANCE WITH QQ-P-416, TYPE AND CLASS OPTIONAL IF NUTS MEET THE SALT SPRAY REQUIREMENTS OF QQ-P-416, TYPE II.
3. SURFACE TEXTURE: IN ACCORDANCE WITH AISI B46.1 SHALL NOT EXCEED 125 MICROINCHES.
4. DIMENSIONS IN INCHES.
5. LUBRICANT: LUBRICANT APPROVED IN ACCORDANCE WITH MIL-N-25027. LUBRICANTS, EXCEPT DRY FILM LUBRICANTS, SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN THE PROCUREMENT SPECIFICATION.
6. THREADS: IN ACCORDANCE WITH MIL-S-8879 BEFORE LUBRICATION.
7. BREAK ALL SHARP EDGES AND REMOVE ALL BURRS AND SLIVERS.
8. PERFORMANCE: MIL-N-25027 EXCEPT LOCKING TORQUE VALUES APPLICABLE FOR 5 CYCLES.
9. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
10. REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.
11. DESIGN INFORMATION: THESE NUTS MAY BE USED AT TEMPERATURES 450°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 LIMITATIONS ON THE USE OF SELF-LOCKING NUTS, AS CITED BY MS33588, THIS STANDARD TAKES PRECEDENCE. NUTS ARE TO BE INSTALLED IN ACCORDANCE WITH MS33540.

EXAMPLE OF PART NUMBER: MS14145 L4-.2500-28 NUT, CADMIUM PLATED, DRY FILM LUBRICATED.
 MS14145-4-.2500-28 NUT, CADMIUM PLATED, SOLUBLE LUBRICANT.

BIDS SHALL BE SOLICITED ONLY FROM THE MANUFACTURERS OR DISTRIBUTORS LISTED ON OPL-25027.

PREPARING ACTIVITY: DLA-IS CUSTODIANS: ARMY-AV NAVY-AS AIR FORCE-99 DLA- REVIEW: IS USER: PROJECT NUMBER: 5310-1861	MILITARY SPECIFICATION SHEET TITLE NUT, SELF-LOCKING, LIGHTWEIGHT, THIN, CASTELLATED, 450°F.	SPECIFICATION SHEET NUMBER MS14145 B 27 APR 93 SUPERSEDING MS14145 A 30 NOV 88 AMSC- N/A FSC 5310
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.		Page <u>2</u> of <u>2</u>

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE