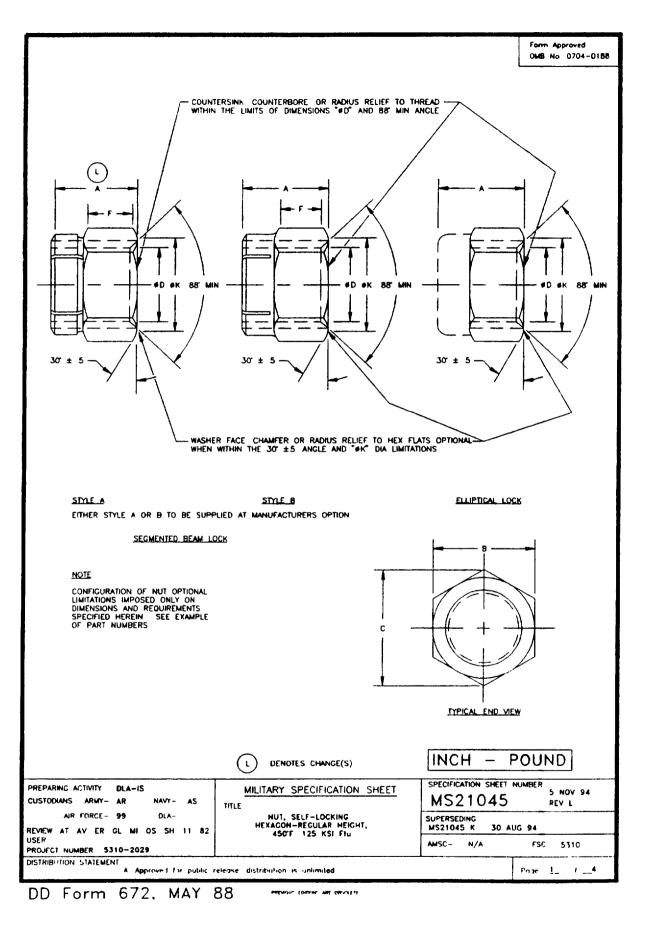
THE REQUIREMENTS FOR ACOURING THE PRODUCT(S) DESCRAED HEREIN SHALL CONSIST OF THIS "PECKFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THE SOUCITATION MIL-N-25027



THIS SPELIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES DEPAPTMENT OF DEFENSE

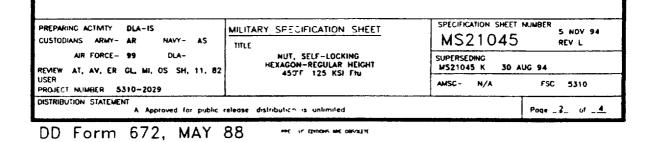
OF THE

Form Approved OM8 No 0704-0188

DASH NUMBERS		BERS	(a)	(c)						(b)				
STEEL			D-DC+D			В		с	●D	F	BEARING	AXIAL	WEIGHT	øĸ
	DRY		THREAD MIL-S-8879							,	SURFACE SQUARE - NESS	STRENGTH LBS MIN		
	200			MAX	MIN	MAX	MIN	MIN	±0 020	MIN				MIN
04	L04	<b>C04</b>	1120-40UNJC-38	167	133	251	243	268	136	044	004	750	16	223
06	L06	C06	1380-32UNJC-38	188	160	313	305	339	161	072	004	1,130	30	285
80	L08	C08	1640-32UNJC-38	250	219	345	336	374	186	091	004	1 720	50	316
3	IJ	C3	1900-32UNJF-38	250	208	376	367	410	210	085	004	2 460	58	347
4	L4	C4	2500-28UNJF-38	328	240	439	430	482	273	116	005	4,580	99	410
5	ι5	C5	3125-24UNJF-38	360	271	502	492	552	336	123	006	7 390	1 40	472
6	L6	C6	3750-24UNJF-38	469	318	564	553	622	390	153	006	11,450	2 15	533
7	17	C7	4375-20UNJF-38	469	435	590	679	765	467	178	007	16 450	3 40	659
8	LB	СВ	5000-20UNJF-38	610	575	752	741	837	531	221	007	21,110	4 70	721
9	L9	Ç9	5625-18UNJF-38	704	623	877	865	978	594	243	800	26,810	7 80	845
10	L10	C10	6250-18UNJF-38	766	732	940	928	1 051	656	274	008	34 130	9 50	908
12	L12	C12	7500-16UNJF-38	891	855	064	1 052	1 191	787	316	009	50 020	13 60	1 032
14	L14	C14	8750-14UNJF-38	1 016	965	· 252	1 239	1 403	918	570	010	68,440	21 00	1 219
16	L16	C16	1 0000-12UNJF-38	1 141	1 010	° 440	1 427	1 615	1 044	635	011	92 180	31 00	1 407
18	118	C18	1 1250-12UNJF-38	1 266	1 1 30	627	1 614	1 826	1 171	710	012	116 700	46 00	1 594
20	L20	C20	1 2500-12UNJF-38	1 454	1 300	814	1 801	2 038	1 295	795	013	147 940	65 00	1 781

## TABLE I. DIMENSIONS AND TOLERANCES

Threads in accordance with Mil-s-8879 Bearing surface (\$K) shall be square with Pitch diameter when measured on accordance with Mil-n-25027 Dimensions across flats may include deformation of self-locking device (0) (b) (c)



Source: https://assist.dla.mil -- Downloaded: 2019-05-24T20:16Z Check the source to verify that this is the current version before use.

~ -- --- THE REQUREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRABED MEREIN SHULL CONSIST OF THIS SPECKFLATION SHEET AND THE ISSUE OF THE FOLLOWING SPECFFICATION LISTED IN THAT ISSUE OF THE DODISS SPECFFICE IN THE SOLUCIATION MIL-N-25027

-

		Form Approved OMB No: 0704-0188						
RE	OUIREMENTS	L						
1	MATERIALS. ALLOY STEEL GRADE 8740 (UNS G87400) PER AMS 6322 CARBON STEEL GRADE 1008 (UNS G10080) PER AMS 6350 CARBON STEEL GRADE 1015 (UNS G10100) PER AMS 5050 CARBON STEEL GRADE 1015 (UNS G10150) PER AMS 5060 CARBON STEEL GRADE 1018 (UNS G10210) PER AMS 5069 CARBON STEEL GRADE 1021 (UNS G10220) PER AMS 5070 CARBON STEEL GRADE 1022 (UNS G10220) PER AMS 5070 CARBON STEEL GRADE 1022 (UNS G10220) PER AMS 5070 CARBON STEEL GRADE 1022 (UNS G10300) PER AMS 5080 CARBON STEEL GRADE 1035 (UNS G10300) PER AMS 5080 CARBON STEEL GRADE 1035 (UNS G10300) PER AMS 5080 CARBON STEEL GRADE 1046 (UNS G10460) PER ASTM A29 CARBON STEEL GRADE 1110 (UNS G11100) PER ASTM A29 CARBON STEEL GRADE 1117 (UNS G11170) PER AMS 5022 CARBON STEEL GRADE 1117 (UNS G11170) PER AMS 5024 CARBON STEEL GRADE 1113 (UNS G11374) PER AMS 5024 CARBON STEEL GRADE 1123 (UNS G11374) PER ASTM A29 CARBON STEEL GRADE 1214 (UNS G12130) PER ASTM A29 CARBON STEEL GRADE 1214 (UNS G12130) PER ASTM A29 CARBON STEEL GRADE 12114 (UNS G12130) PER ASTM A29 CARBON STEEL GRADE 1214 (UNS G12130) PER ASTM A29 CARBON STEEL GRADE 1214 (UNS S12110) PER ASTM A29 CARBON STEEL GRADE 1214 (UNS S12130) PER ASTM A29 CARBON STEEL GRADE 1214 (UNS S12130) PER ASTM A29 CARBON STEEL GRADE 12114 (UNS S13030) PER ASTM A29 CARBON STEEL GRADE 12114 (UNS S13030) PER ASTM A29 CARBON STEEL GRADE 12114 (UNS S13030) PER ASTM A29 CARBON STEEL GRADE 12114 (UNS S30300) PER ASTM A276 CORROSION RESISTANT STEEL TYPE A-286 (UNS S30300) PER ASS 5647 CORROSION RESISTANT STEEL TYPE A-286 (UNS S30500) PER ASS 5647 CORROSION RESISTANT STEEL TYPE A-305 (UNS S30500) PER ASS 5686							
2	COATING, STEEL NUTS (WITHOUT DRY FILM LUBRICATION) CADMIUM PLATED IN ACCORDANCE WITH OQ-P-416 DRY FILM LUBRICATED STEEL NUTS IN ACCORDANCE WITH OQ-P-416 TYPE AND CLASS OPTIONAL IF MEET THE SALT SPRAY REQUIREMENTS OF OQ-P-416 TYPE II ALUMINUM COATING, ION VAPOR DE MIL-C-83488	F THE NUTS WILL						
3	PASSIVATE. CORROSION RESISTANT STEEL NUTS PER QQ-P-35 BEFORE DRY FILM LUBRICATED							
	LUBRICANT, DRY FILM LUBRICANT APPROVED IN ACCORDANCE WITH MIL-N-25027 NON DRY LUBRICANT SHU BE SOLUBLE IN THE CLEANER SPECIFIED IN MIL-S-8802	ALL.						
5	SURFACE ROUGHNESS. IN ACCORDANCE WITH ANSI/ASME 846 1 UNLESS OTHERWISE SPECIFIED THE SURFACE NOT EXCEED 125 MICROINCHES	ROUGHNESS SHALL						
6	PERFORMANCE. SEE PROCUREMENT SPECIFICATION EXCEPT DRY FILM LUBRICATED CRES NUTS LIMITED TO FI	IVE REUSE CYCLES						
7	MAGNETIC PERMEABILITY. IN ACCORDANCE WITH MIL-N-25027							
NO								
1	DIMENSIONS IN INCHES BREAK ALL SHARP EDGES AND REMOVE ALL BURRS AND SUVERS							
3	EXAMPLE OF PART NUMBER							
	MS21045-4 - 2500-28 STEEL NUT, CADMIUM PLATED SOLUBLE LUBRICANT SEGMENTED BEAM LOCK OF ELLIPTICAL LOCK MS21045L4 = 2500-28 STEEL NUT CADMIUM PLATED DRY FILM LUBRICANT SEGMENTED BEAM LOCK OF ELLIPTICAL LOCK MS21045C4 - 2500-28 CORROSION RESISTANT STEEL NUT DRY FILM LUBRICANT SEGMENTED BEAM LOCK OF ELLIPTICAL LOCK							
	MS21045-45 = 2500-28 STEEL NUT CADMIUM PLATED SOLUBLE LUBRICANT SEGMENTED BEAM LOCK MS21045-4E = 2500-28 STEEL NUT CADMIUM PLATED SOLUBLE LUBRICANT ELLIPTICAL LOCK							
4	AN ADDITIONAL DASH "S" CODE INDICATES SEGMENTED BEAM LOCK "E" CODE INDICATES ELLIPTICAL BEAM LOC "A" CODE INDICATES ION VAPOR DEPOSITED ALUMINUM COATING	ĸ						
5	DESIGN AND USAGE LIMITATIONS THESE NUTS ARE DESIGNED TO DEVELOP THE TENSILE STRENGTH OF BOLTS AND SCREWS WITH AN ULTIMATE STRESS (F1u) OF 125 KSI BASED ON THE CROSS SECTIONAL AREA AT THE BASIC ROOT DIAMETER OF THE THREAD THESE NUTS ARE DESIGNED TO BE USED ON 3A EXTERNAL THREADS PER MIL-S-8879 THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF MS33588							
6	INTERCHANGEABILITY RELATIONSHIP EXCEPT FOR THE AN363 7/16-20 THREAD SIZE NUTS MS21045 NUTS CAN UNIVERSALLY (STATUS NOTE) REPLACE THE ALL METAL AN363 AND NAS1021 NUTS OF LIKE MATERIAL PLATING AND AND THREAD SIZE BUT THESE AN363 AND NAS1021 NUTS CANNOT UNIVERSALLY REPLACE THE MS21045 NUTS							
7	BIDS SHALL BE SOLICITED ONLY FROM THE MANUFACTURERS LISTED ON OPL-25027							
ង	IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS DOCUMENT AND THE PEFERENCES CITED HEREIN THE TEXT OF THIS DOCUMENT SHALL TAKE PRECEDENCE							
à	UNLESS OTHERWISE SPECIFIED ISSUES OF REFERENCED DOCUMENTS APE THOSE IN EFFECT AT THE TIME OF S	€C_1 1 <b>ΤΑΤΙ</b> ΟΡ						
PREPARIN	G ACTIMITY DLA-IS MILITARY SPECIFICATION SHEET SPECIFICATION SHEET N	UMBER 5 NOV 94						
	NS ARMY- AR NAVY- AS TIFLE MS21045	REV L						
	AIR FORCE- 99 DLA- NUT SELF-LOCKING SUPERSEDING HEXAGON-REGULAR HEIGHT MS21045 K 30 AU	G 94						
USER	AI, AV ER, GL, MI, US, SH, II, BZ 450'F 125 KSI FIU AMSC- N/A	FSC 5310						
	ION STATEMENT							
	A Approved for public release di fribulion in unlimited	Page <u>3</u> of <u>4</u>						
DD	Form 672, MAY 88 (MINH INDIG AL CALLY)							

-----

- ---- ---

"H.S. SFECIFILATION IS APPROVED FOR USE B+ 丸. DEFARIMENTS AND AGENITIES OF THE DEPARTMENT OF DEFENSE

Form Approved OMB No 0704-0188

ł

## TABLE II INTERCHANGEABILITY TABLE

CANCELLED PART NUMBER			SUBSTITUTIVE PART NUMBER	CAN	ELLED PA	RT NUMBER	SUBSTITUTIVE PART NUMBER	
AN363		NAS1021	MS21045	AN363		NAS1021	MS21045	
-	-	A04	L04	-	~	N7	٤٦	
-632	-	A06	L06	-813	~	-	NONE	
C632	8632	-	C06	-820	-	Að	LB	
-832	-	BOA	108	C820	B820	_	Ca	
C832	B8.32	-	603	-913	- 1	~	NONE	
-1024	-	-	NONE	-918	-	A9	وبا	
- 1032	-	A3	L3	C918	B918	-	C9	
C1032	81032	-	63	-1011	- 1		NONE	
-420	-	-	NONE	-1018	-	A10	L10	
-428	-	A4	L4	C1018	81018	-	C10	
C428	B426	-	C4	-1210	-	-	NONE	
-518	-	~	NONE	-1216	-	A12	L12	
-524	-	A5	L5	C1216	B1216	-	C12	
C524	B524	-	C5	-	- 1	A14	L14	
616	-	-	NONE	-	-	A16	L16	
-624	-	A6	L6	- 1	-	A17	NONE	
C624	B624	-	C6	-	-	A18	L18	
-714	- 1	-	NONE	-	-	A20	L20	
-720	- 1	-	NONE					

PREPARING ACTIMITY DLA-IS CIJSTODIANS ARMY- AR NAVY- AS	MILITARY SPECIFICATION SHEET	SPECIFICATION SHEET NUMBER 5 NOV 94 MS21045 REV L		
AIR FORCE~ 99 DLA~ REVIEW AT AV ER, GL, MI OS, SH 11 B2	NUT SELF-LOCKING HEXAGON-REGULAR NEIGHI 450°F 125 KSI Fiy	SUPERSEDINC MS21045 K 30 AUG 94		
USER PROJECT NUMBER 5310-2029		AMSC- N/A FSC 5310		
DISTRIBUTION STATEMENT A. Approved for public	release distribution is unlimited	Page 4 of 4		
DD Form 672, MAY	88 INDIAL BUTTHE AND GROUNDE			

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