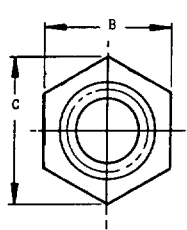
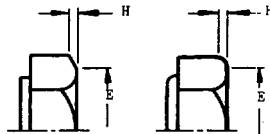
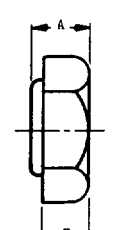
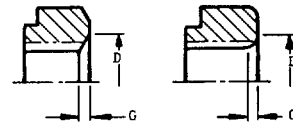


FED. SUP CLASS  
5310

CONFIGURATION OF NUT IS  
OPTIONAL, LIMITATIONS IMPOSED  
ONLY ON DIMENSIONS AND  
REQUIREMENTS SPECIFIED HEREIN



WASHER FACE, CHAMFER OR  
RADIUS RELIEF TO HEX OPTIONAL  
WHEN WITHIN THE LIMITATIONS  
OF DIMENSIONS E AND H



WASHER FACE, CHAMFER OR RADIUS  
RELIEF TO THREAD OPTIONAL  
WHEN WITHIN THE LIMITATIONS  
OF DIMENSIONS D AND G

User activities:  
Army-ELReview activities:  
Navy-AS  
Army-AV, WC, MI, AU  
USAF-11, 82  
JSA-13

SIZE DASH NO.	(a) THREAD	A		B		C REF	D DIA		E MIN DIA	F MIN	G		H MAX	AXIAL STRENGTH LBS MIN	WEIGHT LBS/100 MAX
		MAX	MIN	MAX	MIN		MAX	MIN			MAX	MIN			
04	4-40 NC-3B	.125	.112	.252	.240	.289	.154	.112	.190	.081	.046	.039	.024	—	.13
06	6-32 NC-3B	.141	.126	.314	.302	.361	.178	.138	.252	.092	.049	.042	.027	—	.23
08	8-32 NC-3B	.188	.140	.346	.334	.390	.203	.173	.284	.122			.037	1,720	.28
3	10-32 NF-3B	.147	.137	.365	.353	.430	.230	.192	.315					2,460	.35
4	1/4-28 UNF-3B	.219	.177	.439	.430	.506	.293	.259	.380	.142	.055	.047	.042	4,980	.53
5	5/16-24 UNF-3B	.266	.239	.502	.492	.590	.356	.322	.452	.173	.059	.051	.052	7,390	.85
6	3/8-24 UNF-3B	.282	.269	.564	.553	.650	.418	.385	.523	.183			.055	11,450	1.10
7	7/16-20 UNF-3B	.328	.315	.690	.679	.790	.482	.448	.629	.213	.066	.056	.064	15,540	1.95

(a) THREADS IN ACCORDANCE WITH MIL-S-7742, BEFORE LUBRICATION.

MATERIAL: STEEL, SEE PERFORMANCE SPECIFICATION.

PLATING: CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 3.

LUBRICANT: DRY FILM, WHERE SPECIFIED BY THE CODE LETTER L.

FOR USAF APPLICATIONS, NUTS TREATED WITH DRY FILM LUBRICANTS SHALL NOT BE UTILIZED IN INTEGRAL FUEL TANKS.

DIMENSIONS IN INCHES.

LETTER L BEFORE FIRST DASH NUMBER DESIGNATES DRY FILM LUBRICANT COATED NUTS.

EXAMPLES OF PART NUMBER: MS21040-L = 1/4-28 NUT, ALL METAL, CADMIUM PLATED.

MS21040L = 1/4-28 NUT, ALL METAL, CADMIUM PLATED, DRY FILM LUBRICATED.

ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL25027 SHALL BE USED FOR DESIGN.

DESIGN INFORMATION: THESE NUTS ARE DESIGNED TO DEVELOP THE TENSILE STRENGTH OF BOLTS AND SCREWS WITH AN ULTIMATE TENSILE STRENGTH OF 125,000 PSI BASED ON THE AREA AT THE BASIC ROOT DIAMETER OF THE BOLT OR SCREW THREAD.

INTERCHANGEABILITY RELATIONSHIP: MS21040 NUTS CAN UNIVERSALLY REPLACE AN363, MS20364, AND MS20365 NON-CORROSION RESISTANT STEEL NUTS OF LIKE THREAD SIZE, AND WHICH ARE EITHER ALL METAL OR HAVE NON-METALLIC INSERTS: BUT THESE AN363, MS20364, AND MS20365 NUTS CAN NOT UNIVERSALLY REPLACE THE MS21040 NUTS.

PROVISIONS OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT. WHEN REVISION OR CANCELLATION OF THIS STANDARD IS PROPOSED, THE DEPARTMENTAL CUSTODIANS WILL INFORM THEIR RESPECTIVE DEPARTMENTAL STANDARDIZATION OFFICES SO THAT APPROPRIATE ACTION MAY BE TAKEN RESPECTING THE INTERNATIONAL AGREEMENT CONCERNED.

**INACTIVE FOR DESIGN AFTER 23 SEPTEMBER 1960. USE MS21042.**

INTERCHANGEABILITY RELATIONSHIP: MS21042 NUTS CAN UNIVERSALLY REPLACE THE INACTIVATED MS21040 NUTS OF LIKE THREAD SIZE AND LUBRICANT (DRY FILM AND NON-DRY FILM); BUT THE INACTIVATED MS21040 NUTS CANNOT ALWAYS REPLACE THE SUPERSEDING MS21042 NUTS.

SHEET NO. 2 DELETED.

**© CANCELLED AFTER 22 JULY 1969. USE MS21042. SEE INTERCHANGEABILITY TABLE ON MS21042 FOR SUBSTITUTIVE PARTS.**

THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

This military standard is approved by the Department of Defense and is mandatory on all activities. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

P.A. Navy-AS Other Cast USAF-11 Army-AV	INTERNATIONAL INTEREST	TITLE  NUT, SELF-LOCKING, 500°F, HEXAGONAL, REDUCED HEIGHT	MILITARY STANDARD  <b>MS21040</b>
PROCUREMENT SPECIFICATION MIL-N-25027		SUPERSEDES:	SHEET 1 OF 1

DD FORM 672-1 (Limited coordination)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

APPROVED 25 May 59  
REVISED A 23 Sep 60 B 29 Jun 62 C 22 Jul 69