

MS21042L6  
STYLE B  
CADMIUM,  
CHROMATE, LUBE



MS21042-6  
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CADMIUM,  
CHROMATE

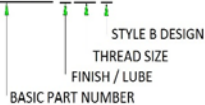
COMMON MS OR NAS PART NUMBERS	THREAD /3/ CUT AS 8879	THREAD COUNT MAX	DIAMETER TO HEIGHT % RATIO	LEAST MATERIAL CONDITION			A	B	C	E	H - HEIGHT		W - FLATS		AXIAL TENSILE LBS/MIN	TORQUE IN/LBS MIN-MAX	MAX WEIGHT LBS/EACH
				TOP	BASE	% RATIO INCREASE					MAX	MIN	MAX	MIN			
MS21042L02	.0860-56 UNJC-3B	5.600	116%	0.014	0.022	57%	0.167	0.137	0.138	0.045	0.100	0.080	0.127	0.122	670	.2-2.5	0.0002
MS21042L04	.1120-40 UNJC-3B	5.000	112%	0.015	0.026	73%	0.206	0.176	0.171	0.050	0.125	0.103	0.158	0.150	1,110	.5-5.0	0.0005
MS21042L06	.1380-32 UNJC-3B	4.512	102%	0.020	0.032	60%	0.244	0.214	0.207	0.055	0.141	0.115	0.190	0.181	1,670	1.0-10.0	0.0008
MS21042L08	.1640-32 UNJC-3B	6.016	115%	0.020	0.035	75%	0.290	0.260	0.244	0.060	0.188	0.125	0.221	0.213	2,490	1.5-15.0	0.0015
MS21042L3	.1900-32 UNJF-3B	6.016	99%	0.024	0.043	79%	0.330	0.290	0.277	0.065	0.188	0.154	0.252	0.243	3,470	2.0-18.0	0.0018
MS21042L4	.2500-28 UNJF-3B	6.132	88%	0.024	0.050	108%	0.420	0.386	0.347	0.090	0.219	0.204	0.316	0.304	6,200	3.5-30.0	0.0035
MS21042L5	.3125-24 UNJF-3B	6.384	85%	0.023	0.057	147%	0.520	0.482	0.419	0.120	0.266	0.251	0.378	0.367	9,820	6.5-60.0	0.0060
MS21042L6	.3750-24 UNJF-3B	6.768	75%	0.024	0.066	175%	0.620	0.575	0.491	0.125	0.282	0.267	0.440	0.430	15,200	9.5-80.0	0.0080
NAS1291-7	.4375-20 UNJF-3B	6.560	75%	0.024	0.074	208%	0.708	0.680	0.562	0.160	0.328	0.313	0.504	0.494	20,600	14.0-100	0.0130
NAS1291-8	.5000-20 UNJF-3B	8.200	82%	0.024	0.085	254%	0.814	0.786	0.633	0.225	0.410	0.350	0.566	0.556	27,500	18.0-150	0.0210
NAS1291-9	.5625-18 UNJF-3B	8.640	85%	0.054	0.107	98%	0.912	0.874	0.775	0.320	0.480	0.420	0.692	0.680	34,800	24.0-200	0.0360
NAS1291-10	.6250-18 UNJF-3B	9.900	88%	0.055	0.118	114%	1.014	0.976	0.846	0.365	0.550	0.490	0.755	0.743	43,600	32.0-300	0.0450

DESIGN NOTES: (L) SYMBOL DENOTES LEAST MATERIAL CONDITION.

- PERFORMANCE CONFORMS TO NASM25027 REQUIREMENTS.
- HYDROGEN EMBRITTLEMENT MINIMIZED BY LOWER HRC HARDNESS REQUIREMENTS WITH STYLE B SHAPE DESIGN.
- MATERIAL ALLOY STEEL PER SPECIFICATION RECOMMENDED UNS G40370 PER AMS6300 OR UNS G87400 PER AMS6322.
- HEAT TREATMENT PER AMS2759, HRC 43 MAX, TO CONFORM AMS-QQ-P-416C, SECTION 6.2.1 PLATING USAGE REQUIREMENTS.
- FINISH CADMIUM PLATED PER AMS-QQ-P-416, TYPE 2, CLASS 2, BAKE WITHIN 1 HOUR AFTER PLATING 24 HOURS 375°F.
- ADD FINISH CODE OR L TO BASIC PART NUMBER FOR POST LUBE PER AS5272C, TYPE 1 AND BAKE 1 HOUR 375°F.
- C AND W DIMENSIONS APPLY BEFORE FORMING OF SELF LOCKING FEATURE.
- STYLE B TO INCREASE LEAST MATERIAL CONDITION (L) AT BASE STRESS LOAD AREA AND REDUCE HRC MECHANICAL REQUIREMENTS.
- THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF NASM33588.
- THESE NUTS SHALL BE SAMPLE LOT INSPECTED FOR DISCONTINUITIES, NASM25027, SECTION 4.5.4 TABLE LIMITS 7 IN ACCORDANCE WITH ASTM E1444.

EXAMPLE PART NUMBERS

- MS21042 - 02 B - ALLOY STEEL, .0860-56 NUT, 450°F, CADMIUM CHROMATE NO LUBE, STYLE B SHAPE DESIGN
- MS21042 L 3 B - ALLOY STEEL, .1900-32 NUT, 450°F, CADMIUM CHROMATE LUBE, STYLE B SHAPE DESIGN
- MS21042 L 4 B - ALLOY STEEL, .2500-28 NUT, 450°F, CADMIUM CHROMATE LUBE, STYLE B SHAPE DESIGN
- MS21042 L 6 B - ALLOY STEEL, .3750-24 NUT, 450°F, CADMIUM CHROMATE LUBE, STYLE B SHAPE DESIGN
- NAS1291 - 7 B - ALLOY STEEL, .4375-20 NUT, 450°F, CADMIUM CHROMATE LUBE, STYLE B SHAPE DESIGN
- NAS1291 X10 B - ALLOY STEEL, .6250-18 NUT, 450°F, CADMIUM CHROMATE NO LUBE, STYLE B SHAPE DESIGN



CONFORMS TO: NASM21042, MS21042 AND NAS1291

**THIN WALLED, HEX FLANGE NUT, SELF LOCKING**  
450° F ALLOY STEEL, LOW HEIGHT, LIGHT WEIGHT

**MS21042 / NAS1291**  
**STYLE B, STANDARD TORQUE**