

TABLE II – MECHANICAL PROPERTIES

DIA DASH NO /6/	R RAD		(T) MIN /18/	(U) /18/	FATIGUE LOADING LBF		DOUBLE SHEAR STRENGTH LBF MIN	POSITION TOLERANCES			TENSILE STRENGTH Ftu LBF	
	MAX	MIN			LOW TENSION LOAD $\pm 2\%$ /16/	HIGH TENSION LOAD $\pm 2\%$ /17/		X	Y	Z /12/	MAX	MIN
04	.041	.031	.560	.045	5,800	6,850	13,000	.005	.004	.0045	10,300	8,890
05			.663		9,200	10,900	20,200	.006	.005		16,400	14,100
06	.057	.047	.733	.052	13,600	16,100	29,100	.008	.006		24,200	20,900
07			.823		18,400	21,800	39,700	.009	.008	.0060	32,800	28,300
08			.903	.063	24,600	29,100	51,800	.010	.008		43,800	37,800
09			1.000		31,100	34,500	65,600	.011	.009		55,500	47,900
10			1.060	.069	38,900	43,100	81,000	.012	.010		69,500	59,900

MATERIAL: NICKEL ALLOY 718 PER AMS5662 (UNS N07718) OR AMS5663 (UNS N07718) OR AMS5962 (UNS N07718).

HEAT TREATMENT:

MATERIAL MUST BE PROCESSED TO YIELD 220 KSI MINIMUM AND 255 KSI MAXIMUM ULTIMATE TENSILE STRENGTH AT ROOM TEMPERATURE IN ACCORDANCE WITH AMS2750.

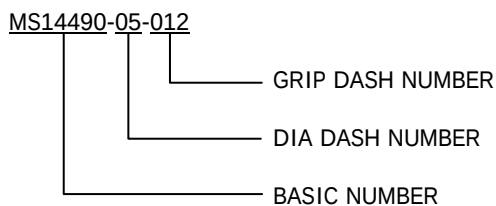
FINISH:

CADMIUM PLATE IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 2.

CODE:

THE BASIC PART NUMBER, DIAMETER DASH NUMBER AT TOP OF TABLE III, PLUS GRIP DASH NUMBER CONSTITUTES A COMPLETE PART NUMBER. FIRST TWO DASH NUMBERS DESIGNATE DIAMETER IN .0625 INCREMENTS. LAST THREE DASH NUMBERS DESIGNATE GRIP LENGTH IN .0625 INCREMENTS. UNASSIGNED DASH NUMBERS SHALL NOT BE USED.

EXAMPLE OF PART NUMBER:



MS14490-05-012 = .3120-24 BOLT, .750 GRIP, 1.438 LONG

NOTES:

- (1) DIMENSIONS IN INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS $\pm .010$, ANGLES $\pm 2^\circ$.
- /2/ PAINT TOP OF BOLT WITH NUMBER 15102 BLUE PER MASTER PAINTERS INSTITUTE, REFERENCE #9, ALKYD, EXTERIOR, GLOSS, (MPI GLOSS LEVEL 6) OR REFERENCE #94, ALKYD, EXTERIOR, SEMI-GLOSS, (MPI GLOSS LEVEL 5). COLOR NUMBER PER FED-STD-595.
- (3) MECHANICAL PROPERTIES PER ~~MIL-B-85604~~ NAS4008 EXCEPT:
FATIGUE PER NAS4008 EXCEPT THAT:
 - A. LOADING SHALL BE AS SHOWN IN NASM14490 TABLE II (FATIGUE LOADING SPECIFIED IN TABLE II INTENDED TO APPROXIMATE WHEEL BOLT APPLICATION.)
 - B. MS14491 NUTS AND MS14177 WASHERS SHALL BE USED.
 - C. THREADS AND BEARING SURFACE OF MS14490 BOLTS, MS14491 NUTS AND MS14177 WASHERS SHALL BE LUBRICATED WITH AMS2518 COMPOUND.
 - D. NO BOLT SHALL FAIL AT LESS THAN 1,000,000 CYCLES.

REVISION

1

NASM14490

SHEET 2

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1 COMPLETELY REVISED