

MCL HANGER – use FC-0208-50

MATERIAL SPECIFICATIONS

Iron-Copper and Copper Steel

PPM Material Properties – Inch-Pound Units

MINIMUM VALUES (A)		TYPICAL VALUES (B)											
Material Designation Code	Minimum Strength (A)	TENSILE PROPERTIES			ELASTIC CONSTANTS					HARDNESS			
	Yield	Ultimate Strength	Yield Strength (0.2%)	Elongation (in 1 inch)	Young's Modulus	Poisson's Ratio	Unnotched Charpy Impact Energy	Transverse Rupture Strength	Compressive Yield Strength (0.1%)	Macro-indentation (apparent)	Micro-indentation (converted)	RBF Fatigue Limit 90% Survival	Density
	10 ³ psi	10 ³ psi	10 ³ psi	%	10 ⁶ psi		ft-lbf	10 ³ psi	10 ³ psi	Rockwell		10 ³ psi	g/cm ³
FC-0208-30	30	35	35	<1	12.5	0.25	<2	60	40	50 HRB	N/D	13	5.8
-40	40	50	45	<1	16.5	0.25	2	90	45	61	N/D	17	6.3
-50	50	60	55	<1	17.5	0.25	5	125	50	73	N/D	23	6.7
-60	60	75	65	<1	22.5	0.28	7	155	55	84	N/D	33	7.2

ALL THREADED ROD

MATERIAL SPECIFICATIONS

ASTM A-36 is a general-purpose structural quality low carbon steel without advanced alloying. It has good forming weldability and mechanical properties and easy to fabricate using structural methods like mild cold and hot forming or welding. ½ A-36 specifications for standard bars, shapes and plates 8" or less is thickness maintain yield strength of 36,000 psi and an ultimate tensile strength of 58,000 to 80,000 psi. Elongation in 2" is a minimum of 23%. This material is easily welded using all welding processes. Commonly produced in sheet, plate, bar, and structural shapes, its intended use is riveted, bolted or welded construction like that of bridges and building and for general structural purposes where aforementioned A-36 specifications are required.

CERTIFIED RECORD OF CHEMICAL AND MECHANICAL PPROPERTIES

¼" through ½" MANUFACTURED FROM 1006-1010 STEEL

ALL THREADED ROD WILL MEET MINIMUM TENSILE & YIELD REQUIREMENTS OF ASTM A36

ITEM	MATERIAL									
1	1/4"-20 LOW CARBON STEEL THREADED ROD MELTED DOMESTICALLY AND INTERNATIONALLY MANUFACTURED IN THE UNITED STATES									
2	3/8"-16 LOW CARBON STEEL THREADED ROD MELTED DOMESTICALLY AND INTERNATIONALLY MANUFACTURED IN THE UNITED STATES									
3	1/2"-13 LOW CARBON STEEL THREADED ROD MELTED DOMESTICALLY AND INTERNATIONALLY MANUFACTURED IN THE UNITED STATES									
ITEM	HEAT#	CARBON	MANG.	PHOS.	SULPHUR	SILICON	CHROM.	NICKEL	MOLY.	COPPER
1	65800	.06	.47	.006	.010	.15	.06	.09	.02	.20
2	26863	.06	.40	.016	.025	.12	.13	.14	.00	.26
3	26864	.07	.42	.013	.02	.13	.10	.11	.00	.21
ITEM	HEAT#	TENSILE PSI		YIELD PSI		% ELONGATION 8" GAGE		REDUCTION OF AREA		BEND TEST
1	65800	62,200		-----		-----		-----		-----
2	26863	60,915		40,053		36.0		-----		-----
3	26864	61,641		40,611		34.0		-----		-----