

Products & Sizes

Bar

0.250" - 1.250"

Cobalt Chrome Moly Chemical Composition

	Element	Min	Max
Co	Cobalt	-	66.00
Cr	Chromium	-	27.0
Ni	Nickel	-	0.2
Mo	Molybdenum	-	5.5
C	Carbon	-	0.04

Industry Standards

Industry Applications

- Acetabular Cups
- Knee replacements
- Hip replacement implants
- Shoulder replacement implants
- Spinal rods, cages and disc replacement
- Fracture fixation

Our medical grade CCM round bar is domestically melted and produced by a leading global US manufacturer and is universally accepted by all major medical OEMs.

Physical Properties

Property	Value
Density	0.2990 lb/in
Poissons Ratio	0.300
Modulus of Elasticity	(E) 35.0 x 10 ³ ksi
Modulus of Rigidity	(G) 13.4 x 10 ³ ksi
Specific Gravity	8.29

Mechanical Properties

Condition	0.2% Yield Strength	Ultimate Tensile Strength	% Elongation in 4D	% Reduction of Area	HRC Hardness
Annealed	85 ksi (585 MPa)	150 ksi (1035 MPa)	25	23	30
Warm Worked	135 ksi (930 MPa)	190 ksi (1310 MPa)	26	23	40
Hot Worked	110 ksi (760 MPa)	160 ksi (1100 MPa)	25	23	33