UNITED PERFORMANCE METALS
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AN ONI COMPANY

CrMoV
Chrome-Moly-Vanadium Steel

CrMov is a low alloy ferritic steel. Also known as a creep resisting alloy, this material is used in elevated temperature environments. Base materials for the alloy provide creep rupture properties up to 580°C. Developed in the 1970s, this material is typically used in fasteners and other parts for power plants.

Nominal Composition %

- C – Carbon – 0.17 – 0.25
- Si – Silicon – ≤ 0.40
- Mn – Manganese – 0.40 – 0.80
- P – Phosphorous – ≤ 0.030
- S – Sulfur – ≤ 0.030
- Al – Aluminum – ≤ 0.030
- Cr – Chromium – 1.20 – 1.50
- Mo – Molybdenum – 0.55 – 0.80
- Ni – Nickel – 0.60
- V – Vanadium – 0.20 - 0.35

Percent by weight, maximum unless a range is listed.

Standard Inventory Specifications

- B50A179B3
- B50A164B2
- B5F5B31
- B50A249
- B50391B

Forms Stocked

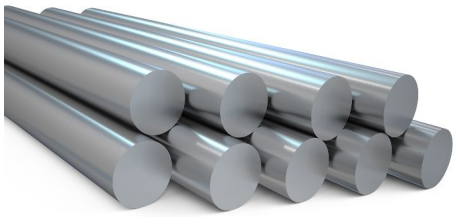
- CrMoV Bar Stock

Thickness Stocked

- 4.000” – 27.750” thick

Applications

- Steam turbines
- Valve casings
- Cast materials
- Boilers and pressure vessels
- Drills
- Connecting rods
- Gear wheels
- Power generation
- Petrochemical industry



Call 1.888.282.3292

Or click here to view our product page and request a quote on CrMoV alloy steel bars

Physical Properties

Property	Value - Metric	Value - Imperial
Density	7.806 g/cm³	0.282 lb/in³

Mechanical Properties and Processes

Property	Value
Modulus of Elasticity	29000 ksi
Melting Process	Electric arc
Forming Process	Hot rolled or forged