C350 Maraging Steel

Smiths High Performance

High-strength steel alloy

Containing 12.0% cobalt and 4.8% molybdenum, C350 finds use in producing high-performance components.

Produced by vacuum arc re-melting, C350 provides a very high strength, nominally 350 ksi tensile (2415 MPa), with an above-average level of toughness. The alloy retains its tensile strength up to 450°C and good notch impact to minus 50°C and below. This material may be nitrided.

We supply **C350 in the annealed condition** where the microstructure consists of fine martensite before final heat treatment.

*Chemical Composition (weight, %)

	Ni	Co	Mo	Ti	Al	Si	Mn	C	S	P	Cr	Cu
Min.	18.00	11.50	4.60	1.30	0.05							
Max.	19.00	12.50	5.20	1.60	0.15	0.10	0.10	0.03	0.01	0.01	0.50	0.50

* Properties as per AMS 6515

Mechanical Properties (typical)

Ultimate Tensile Strength	0.2% Yield Strength	Elongation	Reduction of Area	Notch Tensile (K=9.0)
340,000 psi	330,000 psi	3%	35%	330,000 psi

Applications:

- Motorsport components
- Engine driveshafts
- Ordnance mounting blocks
- Missile casings

Machining & Welding:

Machining of C350 maraging steel is in the annealed condition; machining in the maraged condition is also possible. Components can be machined close to finished dimensions as the low-temperature maraging treatment results in minimal distortion. Weldability is good.

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About Smiths High Performance

Smiths High Performance is a leading stockholder and supplier of high-performance engineering materials. We are material supply chain partners supporting **high-technology market sectors**.

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