

# Maraging 350

Smiths Advanced Metals

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## Even Greater Strength

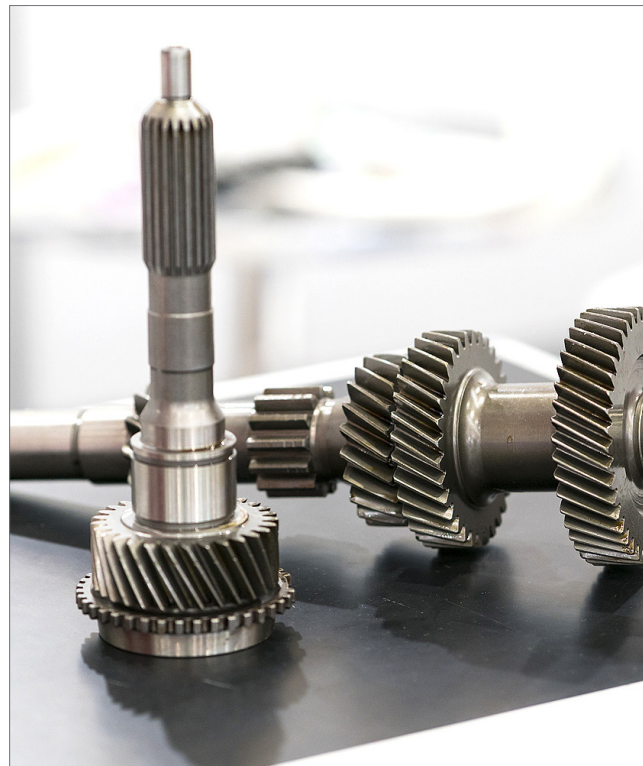
For high-performance components.

Maraging 350 steel is a nickel-based material that utilises cobalt as a primary strengthening agent in the alloying process.

The product has the highest strength of all available maraging steels and offers excellent mechanical properties. The maraging treatment is performed at low temperature, creating the desired strength and toughness characteristics. It also results in an alloy perfect for machining to very close tolerances.

We supply Maraging 350 in the annealed condition where the microstructure consists of fine martensite. Machining in the maraged condition is also possible. The tensile strength of the alloy is retained even at elevated temperatures (up to 450°C) while notch impact toughness is maintained at temperatures as low as -50°C.

Smiths Advanced Metals stocks [Maraging 350 steel bars](#) in the annealed condition and in closer incremental sizes to suit your particular engineering requirements.



## Grades / Specifications

- AMS6515
- MIL-S-46850
- UNS K93540

## Benefits

- Highest strength maraging steel
- Excellent mechanical properties
- Good weldability
- May be machined to tight tolerances

### \*Chemical Composition (weight %)

	Ni	Co	Mo	Ti	Al	Si	Mn	C	S	P	Zr	B	Cr	Cu	Ca	
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	0.02	0.003	0.50	0.50	0.05	

\* As per AMS 6515

### \*Mechanical Properties

Size	Direction	Tensile Strength	0.2% yield	Elongation	Hardness
up to 127.00mm (incl.)	Longitudinal	2,344 MPa min	2,275 MPa min	2.8% min	56HRC min

\* Properties as per AMS 6515 properties after maraging heat treatment

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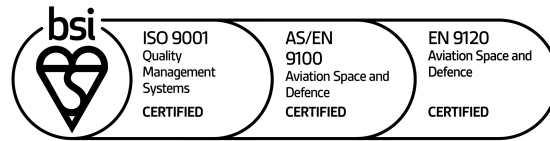
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