

# AISI 4130 Alloy Steel

## AISI 4130 ALLOY STEEL DATASHEET

AISI 4130 steel is a chromium-molybdenum alloy steel and is considered a low carbon steel. It is popularly known as Chromoly in the commercial market. Its steel properties make it a versatile metal, especially mechanical properties such as high ductility, good weldability, and machinability. It is exceptional welding steel, which you can weld by most common methods, and machine it at normalized or tempered conditions. When heat-treated, Chromoly develops mechanical properties that make it a very strong metal, although it can lose some of its machinability.

Applications include military aircraft, commercial jets, automotive, machine tools, hydraulics, motor sports, aerospace, and welded tubing (especially in the oil and gas industries).

Product forms include bar, seamless tubing, and plate.

### Standards

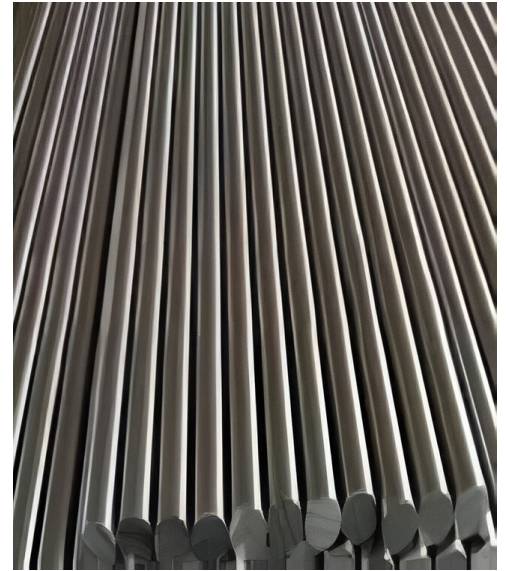
- UNS G41300
- AMS 6370
- AMS 6350
- AMS S6758

### Physical Properties

- Density: 0.283 LB/in<sup>3</sup> (7.85 g/cm<sup>3</sup>)
- Melting Range: 2590-2660°F (1421-1460°C)
- Modulus of Elasticity: 29.7 x10<sup>6</sup>psi (205 Gpa)
- Magnetic Permeability:

### Characteristics

- Good strength
- Easily welded
- Easy to machine



### Chemical Composition

	C	Mn	S	Si	P	Cr	Mo	Fe
MIN	0.28	0.40	-	0.15	-	0.80	0.15	97.30
MAX	0.33	0.60	0.04	0.35	0.035	1.10	0.25	98.22

### Mechanical Properties

Tensile (min) KSI (Mpa)	Yield (min) KSI (Mpa)	Elongation (min) %	Reduction of Area (min) %	Hardness (max) HRB (BRN)
97 (670)	63.1 (435)	25.5	60	92 (197)

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