

# AISI 4130 Alloy Steel

## AISI 4130 ALLOY STEEL DATASHEET

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

Applications for AISI 4130 alloy steel 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**

### 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)

WWW.SPECIALTYSTEELSUPPLY.COM



SPECIALTY STEEL SUPPLY  
19201 CIRCLE LAKE DR  
PINEHURST, TX 77362  
Call for a quote (281) 821-7111



All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.  
© Specialty Steel Supply