

4130 Chrome Moly Sheet



4130, also known as Chrome Moly (so named for 2 key elements of its composition, chromium and molybdenum), is a general-purpose alloy steel that has been widely used by the aviation and motorsports industries for years. Weldability, fabrication, and mild hardenability make it a popular choice in all forms – tube, bar, sheet, and plate.

4130 Sheet and plates are available in two conditions;
Normalized and Annealed.

4130 Normalized Sheet:

Produced to the aerospace specification AMS-6345. The normalized condition is the harder and stronger condition and is best used when forming is not needed.

4130 Annealed Sheet:

Produced to the aerospace specification AMS-6350. The annealed condition is the softer and formable condition and is best used when forming is needed.

Typical Mechanical Properties

	Tensile Strength min.	Yield Strength min.	Elongation min. % in 2"
Normalized .025" - .187"	95,000 psi	75,000 psi	Up to .062" - 8% Over .062" to .125" - 10% Over .125" to .187" - 12%
Normalized over .187" - .375"	90,000 psi	70,000 psi	Over .187" to .249" - 15% Over .250" to .749" - 16%
Annealed	85,000 psi max.	---	---

Chemical Analysis – Percent by Weight

C	Mn	P	S	Si	Cr	Ni	Mo	Cu
.28 to .33	.40 to .60	.025 (max)	.025 (max)	.15 to .35	.80 to 1.10	.25 (max)	.15 to .25	.35 (max)

4130 Sheet and plates are commonly stocked in 36" x 72" dimensions.

Thicknesses range from .025" to .375"

The best pricing is always when you order full sheets, which can be cut for economical shipping methods. A.E.D. also offers "cut-to-size" pieces.

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