

6061-T6 Aluminum Bar



6061 is one the most versatile of the heat-treatable aluminum alloys. It has good formability and weldability, as well as high corrosion resistance. Additionally, 6061 offers a wide range of mechanical properties and can be fabricated by many of the commonly used techniques. 6061 is the most economical of the heat-treatable aluminums.

6061-T6 bars are produced in Round, Flat, Square, and Hex shapes

Nearly all of our 6061 bars are stocked as 6061-T6511, which are “extruded.” 6061-T6511 bars are produced to meet ASTM standards, but also meet AMS specification AMS-QQ-A-200/8.

6061-T651 bars, which are “cold-finished” and are typically harder to source. Produced to meet AMS-QQ-A-225/8 and may be available for special order.

Typical Mechanical Properties

	Tensile Strength min.	Yield Strength min.	Elongation min. % in 2"
Up to .250"	38,000 psi	35,000 psi	8%
.250" and above	38,000 psi	35,000 psi	10%

* These properties apply to 6061-T6511 Extruded Bar

Chemical Analysis – Percent by Weight

Cu	Si	Fe (max)	Mn (max)	Mg	Zn (max)
.15/.40	.40/.80	.70	.15	.80/1.20	.25

Cr	Ti (max)	Other		Al
		Each	Total	
.04/.35	.15	.05	.15	Remainder

6061 bars are produced in 12 lengths.

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

