

6061-T6 ALUMINUM BARS

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.

AED stocks 6061 in sheet, plate, bar, tube, and angle.

Other items, such as treadplate, channel, pipe, etc. are available upon request.

6061 Chemical Analysis

Cu	Si	Fe (max)	Mn (max)	Mg	Zn (max)	Cr	Ti (max)	Others		Al
								Each	Total	
.15/.40	.40/.80	.70	.15	.80/1.20	.25	.04/.35	.15	.05	.015	Remainder

6061-T6 BAR

AED stocks 6061 bars in a several sizes and shapes, mostly rounds, flats and squares, but hex bars are also available from time to time. Most of our 6061 bars are supplied in 12-foot lengths as 6061-T6511, which refers to an “extruded” type. The best pricing is always when you order full lengths, which can be cut for economical shipping methods. AED also offers “cut-to-size” pieces.

6061-T6511 bars meet AMS-QQ-A-200/8. While generally very difficult to supply, 6061-T651 bars, which are “cold-finished,” meet AMS-QQ-A-225/8.

6061 Bar Typical Mechanical Properties:

	6061-T6/ 6061-T651
Tensile Strength (psi)	45,000
Yield Strength (psi)	40,000
Elongation (% in 2")	
.063" Sheet	12
1/2" Round	17
Min. 90° Cold Bend Radius for .064" thick	1-2T
Brinell Hardness	95
Ultimate Shearing Strength (psi)	30,000
Fatigue, Endurance Limit (psi)	14,000
Modulus of Elasticity (ksi x 1000)	10.0

Note: 6061-T6511 data not available.



PRODUCT DETAILS



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Note: "Typical Mechanical Properties" have been compiled from a variety of sources. Information is deemed reliable, but it is not guaranteed. This data is provided for information only, **NOT FOR DESIGN PURPOSES.**



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