

6061-T6 ALUMINUM SHEET & PLATE

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, channels, 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	.80/1.2	.25	.04/.35	.15	.05	.015	Remainder

6061-T6 SHEET AND 6061-T6 PLATE

6061 sheets and plates are generally produced in 48" x 144" dimensions. The best pricing is always when you order full sheets, which can be cut for economical shipping methods. AED also offers "cut-to-size" pieces.

6061-T6 sheet and plate are one of the strongest of the common aluminum alloys. Alternately, 6061-T4 sheets offers much of the strength of the 6061-T6, but is much softer and suited for severe forming operations.

6061-T6 sheets and plate meet the aerospace specification AMS 4027, as well as AMS QQ-A-250/11.

6061 Sheet and Plate Typical Mechanical Properties:

	6061-T6 / 6061-T651	6061-T4 *
Tensile Strength (psi)	45,000	35,000
Yield Strength (psi)	40,000	21,000
Elongation (% in 2")		
.063" Sheet	12	22
Min. 90° Cold Bend Radius for .064" thick	1-2T	½ - 1-½T
Brinell Hardness	95	65
Ultimate Shearing Strength (psi)	30,000	24,000
Fatigue, Endurance Limit (psi)	14,000	14,000
Modulus of Elasticity (ksi x 1000)	10.0	10.0

* 6061-T4 data shown for comparison to 6061-T6.

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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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