

6061-T6 ALUMINUM ROUND TUBE

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.

Other grades of aluminum round tube may also be available, but are not kept in stock. These may include 2024-T3, 3003-H14, and 5052-O.

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	.35	.05	.015	Remainder

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6061 round tubes can be supplied as “drawn” or “extruded.” Drawn tubes are produced in 12-foot lengths and are suitable for bending. Extruded tubes are typically produced in 24-foot lengths, although 12-foot and sometimes 20-foot lengths are available. Extruded tubes generally do not perform well in most bending applications. 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-T6 drawn tubes meet the aerospace specification AMS WW-T-700/6. Extruded tubes are typically produced to ASTM-B221 and QQ-A-200/8. Other specifications may also apply to either type.

6061-T6 Tube Typical Mechanical Properties:

	6061-T6
Tensile Strength (psi)	38,000 minimum
Yield Strength (psi)	35,000 minimum
Elongation (% in 2")	10% minimum

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.**