

## 7075 ALUMINUM BARS

7075 is one of the highest strength aluminum alloys available. It has good machinability and an excellent strength-to-weight ratio, and it is a popular material in applications where strength is extremely critical. 7075 is often used for highly stressed parts. 7075 has only average corrosion resistance. Improved resistance is normally obtained by cladding parts. Welding is generally not recommended. 7075 is a heat-treatable grade of aluminum, and it sometimes used in place of 2024.

AED stocks 7075 in round and flat bar, as well as some plate stock. Sheet is available upon request.

### 7075 Chemical Analysis

Cu	Si	Fe (max)	Mn (max)	Mg	Zn	Cr	Ti (max)	Others		Al
								Each	Total	
1.20/2.00	.40	.50	.30	2.10/2.90	5.10/6.10	.18/.28	.20	.05	.015	Remainder

### 7075 BAR

7075 bars may be available in several "tempers." These temper designations describe the condition that material is produced to, including such criteria as heat-treating, hardening and the like. AED has tended to stock 7075 round and flat bar in the extruded form ("-T6511") although there has been increasing interest in the cold-finished temper, ("-T651"). Squares are also common, and hex bars are also available from time to time. Most of our 7075 bars are supplied in 12-foot lengths. 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.

Bar: 7075-T6511 (extruded) meets AMS-QQ-A-200/11 and AMS 4169.

Bar: 7075-T651 (cold-finished) meet AMS-QQ-A-225/9 and AMS 4123.

### 7075 Bar Typical Mechanical Properties:

	7075-T6/ 7075-T651
<b>Tensile Strength (psi)</b>	83,000
<b>Yield Strength (psi)</b>	73,000
<b>Elongation (% in 2")</b>	
<b>.063" Sheet</b>	11
<b>1/2" Round</b>	11
<b>Min. 90° Cold Bend Radius for .064" thick</b>	4-6T
<b>Brinell Hardness</b>	150
<b>Ultimate Shearing Strength (psi)</b>	48,000
<b>Fatigue, Endurance Limit (psi)</b>	23,000
<b>Modulus of Elasticity (ksi x 1000)</b>	10.4

Note: 7075-T6511 data not available.

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## 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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