

7075 ALUMINUM SHEET & PLATE

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 plate stock, as well as some round and flat bar. 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 SHEET AND PLATE

7075 sheets are available in either a bare (mill finish) or as an "alclad" finish. Cladding provides superior corrosion resistance. Sheets are offered in a heat-treated temper (7075-T6) or in a soft annealed temper for forming (7075-O). These temper designations describe the condition that material is produced to, including such criteria as heat-treating, annealing, and the like. 7075 plates are available as only as bare 7075-T651.

All 7075 Bare sheets and plates meet AMS-QQ-A-250/12.

All 7075 Alclad sheets meet AMS-QQ-A-250/13.

Other specs: 7075-O Bare meets AMS 4044. 7075-O Alclad meets AMS 4048.

7075-T6 Bare and 7075-T351 plates meet AMS 4045. 7075-T6 Alclad meets AMS 4049.

7075 Sheet/Plate Typical Mechanical Properties:

	7075-T6 / 7075-T651	7075-T6 Alclad	7075-O	7075-O Alclad
Tensile Strength (psi)	83,000	76,000	33,000	32,000
Yield Strength (psi)	73,000	67,000	15,000	14,000
Elongation (% in 2")				
.063" Sheet	11	11	17	17
1/2" Round	11	-	16	-
Min. 90° Cold Bend Radius for .064" thick	4-6T	-	0-1T	-
Brinell Hardness	150	-	60	-
Ultimate Shearing Strength (psi)	48,000	46,000	-	22,000
Fatigue, Endurance Limit (psi)	23,000	-	-	-
Modulus of Elasticity (ksi x 1000)	10.4	10.4	10.4	10.4

AED Motorsport Products LTD

www.aedmotorsport.com

5373 W. 86th St. Indianapolis, IN 46268 USA

Ph. 317.334.0569 Fax 317.879.9397



PRODUCT DETAILS



7075 ALUMINUM SHEET & PLATE

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.**



AED Motorsport Products LTD
www.aedmotorsport.com
5373 W. 86th St. Indianapolis, IN 46268 USA
Ph. 317.334.0569 Fax 317.879.9397