



6061 Aluminium plate is a precipitation-hardened aluminium alloy containing magnesium and silicon as its major alloying elements. 6061 aluminium plate is one of the most versatile of the heat-treatable alloys. 6061 is popular for its medium to high strength requirements, good toughness and excellent corrosion resistance.

**Features**

- Good Machinability and weldability
- Most common alloy of aluminum for general purpose use

**Applications**

- Transportation Components
- Aircraft and marine fittings
- Machine processing equipment
- Recreation Products

**Electrical Conductivity**

- 40% of copper

**Chemical Composition**

Element	Maximum Unless Range is Specified
Silicon	.40 - .8
Iron	.7
Copper	.15 - .40
Manganese	.8 - 1.2
Magnesium	.8 - 1.2
Chromium	.04 - .35
Zinc	.25
Titanium	.15
Others Each	.05
Others Total	.15
Aluminum	Balance



**Physical Properties**

Density lb/in <sup>3</sup>	0.0975
Thermal Conductivity, Btu-in/hr-ft <sup>2</sup> -°F	1160
Electrical Resistivity, Ω-cm	3.99e-006
Specific Gravity	2.7
Melting Point (Deg F)	1090
Modules of Elasticity in Tension	10
Modules of elasticity in Torsion	3.8

**Mechanical Properties**

Ultimate Tensile Strength	45,000
Tensile Yield Strength	40,000
Elongation at Break	12%
Hardness, Rockwell B	60
Modules of Elasticity, Ksi	10,000