



THAMES
STOCKHOLDERS

6061 ALUMINIUM (inc T651 plate)

COMMERCIAL ALUMINIUM ALLOY

PRODUCT DESCRIPTION

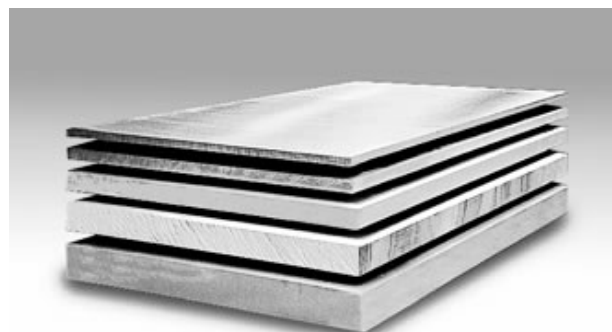
One of the most versatile heat-treatable alloys, **6061** is an American alloy which is typically used in heavy duty structures. With medium to high strength the material offers a combination of medium to high strength with medium fatigue strength. When annealed, 6061 offers excellent formability and weldability and is readily disposed to furnace brazing. We offer 6061 in sheet, plate and extrusion form.

KEY FEATURES

- Excellent weldability and formability
- Medium to high strength alloy
- Medium fatigue strength
- Very good corrosion resistance

APPLICATIONS

- Heavy duty structures
- Shipbuilding, motorboats
- Aircraft structures
- Pylons and towers
- Rail coaches and truck bodies



CORROSION RESISTANCE

Very good

AVAILABILITY

Sheet, plate and extrusions

CHEMICAL COMPOSITION (weight %)

	Mn	Fe	Mg	Si	Cu	Zn	Ti	Cr	Al
Min			0.80	0.40	0.15			0.04	Bal
Max	0.15	0.70	1.20	0.80	0.40	0.25	0.15	0.35	Bal

MECHANICAL PROPERTIES

Tensile Strength	310 MPa
Proof Stress	270 MPa
Shear Strength	190 MPa
Elongation A50 mm	12%
Brinell Vickers	100 HV

PHYSICAL PROPERTIES

Density	2.70 g/cm ³
Melting Point	650 °C
Thermal Expansion	23.4 x10 ⁻⁶ /K
Modulus of Elasticity	70 GPa
Thermal Conductivity	166 W/m.K



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