



THAMES
STOCKHOLDERS

6061 Aluminium

COMMERCIAL ALUMINIUM ALLOY

Page: 1 of 1



Product Overview

6061 aluminium represents one of the most versatile heat-treatable alloys and is of American origin, which finds typical use in heavy-duty structures.

With medium to high strength, the material offers superior corrosion resistance combined with medium fatigue strength. 6061 offers excellent formability and weldability and is readily disposed to furnace brazing. We offer 6061 in sheet, plate and extrusion form and include T651 plates.

Availability:

- Sheet, plate and extrusions

Applications

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

Key Features

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

* 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

* Properties as per BS EN 573-3

* Mechanical Properties

Tensile Strength	290 MPa min.
Proof Stress	240 MPa min.
Elongation A50 mm	8% min.
Brinell Hardness (typical)	88 HBW

* Properties as per BS EN 485-2, T651 (12.5-40mm thickness range)

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



Thames Stockholders

Unit 5W, Woodall Road, Redburn Industrial Estate
Ponders End, Enfield, Middlesex EN3 4LQ

Tel: +44 (0)20 8805 3282



SCAN ME



sales@thamesstock.com



www.thamesstock.com

All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.