

全球钢号百科!

Global Steel Grade Encyclopedia



涵盖的行业或国家与地区类别































6061 Aluminium

Technical Datasheet

Commercial Aluminium Alloy

Service. Quality. Value.

Applications

- Shipbuilding
- Motorboats
- Aircraft structures
- Truck bodies
- Pylons & towers
- Rail coaches

Key features:

- Medium to high strength heat-treatable alloy
- Medium fatigue strength
- Very good corrosion resistance
- Typically used in heavy duty structures

Product Description

6061 aluminium is an American alloy and one of most versatile of the heat-treatable alloys. The alloy is typically used in heavy duty structures. It is a medium to high strength heat-treatable material with very good corrosion resistance and medium fatigue strength. 6061 in the annealed condition offers excellent weldability and formability and is readily disposed to furnace brazing.

Corrosion Resistance

Very good

Availability

Sheet, plate and extrusions

Chemical ((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

Density2.70 g/cm³Melting Point650 °CThermal Expansion23.4 x10⁻⁶ /KModulus of Elasticity70 GPaThermal Conductivity166 W/m.K