

ALUMINIUM

6026 - T6



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Aluminium 6026-T6 is a medium-strength alloy with good corrosion resistance and excellent machinability, making it ideal for applications that require complex shapes and high levels of detail. The alloy's composition avoids certain elements like lead, making it safer for use in all types of environments. Its mechanical properties ensure that it can withstand significant stress and strain without compromising its integrity.

KEY FEATURES

- Good weldability with both TIG and MIG
- Good machinability
- Excellent resistance to corrosion
- Excellent formability
- Suitable for extrusion and forming processes

CHEMICAL PROPERTIES

Magnesium (Mg)	Silicone (Si)	Manganese (Mn)	Iron (Fe)	Zinc (Zn)	Copper (Cu)	Titanium (Ti)	Chromium (Cr)	Other Elements	Aluminium (Al)
0.6-1.2%	0.6-1.2%	0.5%	0.35%	0.1%	0.1%	0.1%	0.1%	0.05-0.15%	rest

MECHANICAL PROPERTIES

Tensile strength (N/mm ²)	310
Yield strength (N/mm ²)	275
Elongation (% at break)	12
Proof stress (MPa)	330
Hardness - Brinell (HB) max	95

PHYSICAL PROPERTIES

Density (kg/m ³)	270	
Modulus of elasticity (Gpa)	70	
Mean coefficient of thermal expansion	0-100°C (µm/m/°C)	23.8
	0-350°C (µm/m/°C)	24.8
	0-538°C (µm/m/°C)	25.5
Thermal conductivity	at 100°C (W/m.K)	175
	at 500°C (W/m.K)	195
Specific Heat 0-100°C (J/kg.K)	93	
Electrical conductivity (IACS %)	36	
Melting point (°C)	600	

MARKET SECTORS



Construction & Architecture

Beams, columns, scaffolding, window frames, panels



Automotive Industry

Body panels, radiator components, trailers



Marine Equipment

Hulls, masts, superstructures, boat components



Electrical Industry

Electrical enclosures, housings, busbars



Manufacturing & Industrial

Extrusions, profiles, jigs, fixtures, tooling



Power Generation

Frames for solar panels



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