

Kormax 6061 Aluminium

Material Data Sheet

Aluminium Alloy 6061 is a medium to high strength heat-treatable alloy. It has excellent corrosion resistance to atmospheric conditions, and excellent weldability, although reduced power in the weld zone. It has medium fatigue strength and is widely available.

Chemical Composition (%)

Element		
Aluminium	Al	Balance
Magnesium	Mg	0.8-1.2
Silicon	Si	0.4-0.8
Copper	Cu	0.15-0.4
Chromium	Cr	0.04-0.35
Iron	Fe	0.70 max
Zinc	Zn	0.25 max
Manganese	Mn	0.15 max
Titanium	Ti	0.15 max

Mechanical Properties

	Metric Values	Imperial Values
Tensile Strength Min	280 N/mm ²	41,000 psi
Yield Strength Min	240 N/mm ²	34,000 psi
Elongation Min	10%	10%
Hardness Min	95 BHN	95 BHN
Specific Gravity	2.7 g/cm ³	

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