Kormax 6082 Aluminium

Material Data Sheet

6082 aluminium is an alloy in the wrought aluminium-magnesium-silicon. It is one of the more popular alloys in its series, although it is not strongly featured in ASTM standards. It is typically formed by extrusion and rolling, but as a wrought alloy it is not used in casting. It can also be forged and clad, but that is not common practice with this alloy. It cannot be work hardened but is commonly heat treated to produce tempers with a higher strength but lower ductility.

Chemical Composition (%)

Element		
Aluminium	Al	Balance
Magnesium	Mg	0.6-1.2
Silicon	Si	0.7-1.3
Manganese	Mn	0.4-1
Iron	Fe	0.5 (max)
Copper	Cu	0.1 max
Zinc	Zn	0.2 max
Chromium	Cr	0.25 max
Titanium	Ti	0.1 max

Mechanical Properties

	Metric Values
Tensile Strength Min	310 MPa
0.2% Proof Stress Min	260 MPa
Elongation percent on 50mm	14%