

6082 T6

Chemical Properties

Element	Chemical composition %
Manganese (Mn)	0.40 - 1.00
Iron (Fe)	0.0 - 0.50
Magnesium (Mg)	0.60 - 1.20
Silicon (Si)	0.70 - 1.30
Copper (Cu)	0.0 - 0.10
Zinc (Zn)	0.0 - 0.20
Titanium (Ti)	0.0 - 0.10
Chromium (Cr)	0.0 - 0.25
Aluminium (Al)	Balance

Mechanical Properties

Property	Value
Proof Stress	170 MPa
Tensile Strength	260 MPa
Elongation	19%
Shear Strength	170 MPa
Hardness Vickers	75 HV

Physical Properties

Property	Value
Density	2.70 g/cm ³
Melting Point	555°C
Thermal Expansion	24 x 10 ⁻⁶ /K
Modulus of Elasticity	70 GPa
Thermal Conductivity	180 W/m.K
Electrical Resistivity	0.038 x 10 ⁻⁶ Ω.m

Product Forms

Bulb Section

Channel

Equal Angle

Flag Bulbs

Flat Bar

Radius Marine Tees

Rectangular Section

Rectangular Tube

Round Bar

Round Tube

Shate

Square Bar

Square Bulbs

Square Marine Tees

Square Section

Square Tube

Standard Sheet

Tee section

Unequal angle

Disclaimer

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