

# 6082 T5 Aluminum Sheet

## Properties

### General

Property	Temperature	Value
Density	23.0 °C	<a href="#">2.7 g/cm<sup>3</sup></a>

### Mechanical

Property	Temperature	Value	Comment
Elastic modulus	23.0 °C	<a href="#">72 GPa</a>	
Elongation	23.0 °C	<a href="#">9.2 %</a>	
Plane-Strain Fracture Toughnes	23.0 °C	<a href="#">22 - 35 MPa·√m</a>	Typical for Wrought 6000 Series Aluminium
Poisson's ratio	23.0 °C	<a href="#">0.33 [-]</a>	Typical for Wrought 6000 Series Aluminium
Shear modulus	23.0 °C	<a href="#">26 - 26.5 GPa</a>	Typical for Wrought 6000 Series Aluminium
Tensile strength	23.0 °C	<a href="#">310 MPa</a>	
Yield strength	23.0 °C	<a href="#">260 MPa</a>	

### Thermal

Property	Temperature	Value	Comment
	23.0 °C	<a href="#">2.3E-5 1/K</a>	

Coefficient of thermal expansion

Melting point [580 °C](#)

Specific heat capacity 23.0 °C [890 J/\(kg·K\)](#)

Thermal conductivity 23.0 °C [170 - 220 W/\(m·K\)](#) Typical for Wrought 6000 Series Aluminium

## Electrical

Property	Temperature	Value	Comment
Electrical conductivity	23.0 °C	<a href="#">2.10E+7 - 3.40E+7 S/m</a>	Typical for Wrought 6000 Series Aluminium
Electrical resistivity	23.0 °C	<a href="#">2.9E-8 - 5E-8 Ω·m</a>	Typical for Wrought 6000 Series Aluminium

## Chemical properties

Property	Value
Aluminium	<a href="#">95.2 - 98.3 %</a>
Chromium	<a href="#">0 - 0.25 %</a>
Copper	<a href="#">0 - 0.1 %</a>
Iron	<a href="#">0 - 0.5 %</a>
Magnesium	<a href="#">0.6 - 1.2 %</a>
Manganese	<a href="#">0.4 - 1 %</a>
Other	<a href="#">0 - 0.15 %</a>
Silicon	<a href="#">0.7 - 1.3 %</a>
Titanium	<a href="#">0 - 0.1 %</a>

Zinc

[0 - 0.2 %](#)

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## Technological properties

Property

**Workability**

Excellent workability.

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