

# 6061 T4 Aluminum Coil

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## Properties

### General

Property	Temperature	Value	Comment
Density	23.0 °C	<a href="#">2.7 g/cm<sup>3</sup></a>	Typical for Wrought 6000 Series Aluminium

### Mechanical

Property	Temperature	Value	Comment
Elastic modulus	23.0 °C	<a href="#">70 GPa</a>	Typical for Wrought 6000 Series Aluminium
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="#">177 MPa</a>	
Yield strength	23.0 °C	<a href="#">108 MPa</a>	

# Thermal

Property	Temperature	Value	Comment
Coefficient of thermal expansion	23.0 °C	<a href="#">1.6E-5 - 2.4E-5 1/K</a>	Typical for Wrought 6000 Series Aluminium
Melting point		<a href="#">555 - 655 °C</a>	Typical for Wrought 6000 Series Aluminium
Specific heat capacity	23.0 °C	<a href="#">887 - 963 J/(kg·K)</a>	Typical for Wrought 6000 Series Aluminium
Thermal conductivity	23.0 °C	<a href="#">170 - 220 W/(m·K)</a>	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

# Technological properties

Property	
Processing history	T4
Workability	Excellent workability.