

# Properties

## General

Property	Temperature	Value	Comment
Density	23.0 °C	<a href="#">2.7 g/cm<sup>3</sup></a>	Typical for Wrought 1000 Series Aluminium

## Mechanical

Property	Temperature	Value	Comment
Elastic modulus	23.0 °C	<a href="#">68 - 70 GPa</a>	Typical for Wrought 1000 Series Aluminium
Elongation	23.0 °C	<a href="#">22 %</a>	
Elongation A50	23.0 °C	<a href="#">25 %</a>	
Plane-Strain Fracture Toughnes	23.0 °C	<a href="#">22 - 35 MPa·√m</a>	Typical for Wrought 1000 Series Aluminium
Poisson's ratio	23.0 °C	<a href="#">0.33 [-]</a>	Typical for Wrought 1000 Series Aluminium
Shear modulus	23.0 °C	<a href="#">25.9 GPa</a>	Typical for Wrought 1000 Series Aluminium
Tensile strength	23.0 °C	<a href="#">75 - 105 MPa</a>	
Yield strength Rp0.2	23.0 °C	<a href="#">20 MPa</a>	

## Thermal

Property	Temperature	Value	Comment
Coefficient of thermal expansion	23.0 °C	<a href="#">2.2E-5 - 2.5E-5 1/K</a>	Typical for Wrought 1000 Series Aluminium
Melting point		<a href="#">645 - 660 °C</a>	Typical for Wrought 1000 Series Aluminium
Specific heat capacity	23.0 °C	<a href="#">900 - 963 J/(kg·K)</a>	Typical for Wrought 1000 Series Aluminium
Thermal conductivity	23.0 °C	<a href="#">167 - 244 W/(m·K)</a>	Typical for Wrought 1000 Series Aluminium

## Electrical

Property	Temperature	Value	Comment
Electrical conductivity	23.0 °C	<a href="#">3.30E+7 - 3.80E+7 S/m</a>	Typical for Wrought 1000 Series Aluminium
Electrical resistivity	23.0 °C	<a href="#">2.7E-8 - 3E-8 Ω·m</a>	Typical for Wrought 1000 Series Aluminium

## Chemical properties

Property	Value
Aluminium	<a href="#">99 %</a>
Copper	<a href="#">0.05 - 0.2 %</a>
Manganese	<a href="#">0.05 %</a>
Zinc	<a href="#">0.1 %</a>

## Technological properties

Property
Brazing

Excellent

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**Workability**

Excellent workability.

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