

# 1060 H14 Aluminum Circle

## 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
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="#">85 MPa</a>	
Yield strength Rp0.2	23.0 °C	<a href="#">70 MPa</a>	

### Thermal

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

## Electrical

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

## Chemical properties

Property	Value
<b>Aluminium</b>	<a href="#">99.6 %</a>
<b>Copper</b>	<a href="#">0.05 %</a>
<b>Iron</b>	<a href="#">0.35 %</a>
<b>Magnesium</b>	<a href="#">0.03 %</a>
<b>Manganese</b>	<a href="#">0.03 %</a>
<b>Silicon</b>	<a href="#">0.25 %</a>
<b>Titanium</b>	<a href="#">0.03 %</a>
<b>Zinc</b>	<a href="#">0.05 %</a>

# Technological properties

## Property

**Brazing**

Excellent

**Workability**

Excellent workability.