

# 1050 H18 Aluminum Coil

## 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="#">69 GPa</a>	
Plane-Strain Fracture Toughness	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="#">140 MPa</a>	

## Thermal

Property	Temperature	Value
Coefficient of thermal expansion	23.0 °C	<a href="#">2.4E-5 1/K</a>
Melting point		<a href="#">650 °C</a>
Specific heat capacity	23.0 °C	<a href="#">900 J/(kg·K)</a>
	23.0 °C	<a href="#">230 W/(m·K)</a>

## 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

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## Chemical properties

Property	Value
Aluminium	<a href="#">99.5 - 100 %</a>
Copper	<a href="#">0 - 0.05 %</a>
Iron	<a href="#">0 - 0.4 %</a>
Magnesium	<a href="#">0 - 0.05 %</a>
Manganese	<a href="#">0 - 0.05 %</a>
Silicon	<a href="#">0 - 0.25 %</a>
Titanium	<a href="#">0 - 0.03 %</a>
Vanadium	<a href="#">0 - 0.05 %</a>
Zinc	<a href="#">0 - 0.05 %</a>

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## Technological properties

Property	
Brazing	Excellent
Workability	

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Excellent workability.

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