

materials.

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# 8006 H22 Aluminum Foil

## Properties

### General

Property	Temperature	Value
Density	23.0 °C	<a href="#">2.74 g/cm<sup>3</sup></a>

### Mechanical

Property	Temperature	Value	Comment
Elastic modulus	23.0 °C	<a href="#">69 - 72 GPa</a>	Typical for Wrought 8000 Series Aluminium
Elongation A100	20.0 °C	<a href="#">10 - 12 %</a>	
Elongation A50	20.0 °C	<a href="#">10 - 12 %</a>	
	23.0 °C	<a href="#">10 - 12 %</a>	
Plane-Strain Fracture Toughnes	23.0 °C	<a href="#">22 - 35 MPa·√m</a>	Typical for Wrought 8000 Series Aluminium
Poisson's ratio	23.0 °C	<a href="#">0.33 [-]</a>	Typical for Wrought 8000 Series Aluminium
Tensile strength	20.0 °C	<a href="#">110 - 150 MPa</a>	
	23.0 °C	<a href="#">110 - 150 MPa</a>	

Yield strength  
Rp0.2

20.0 °C

[70 MPa](#)

23.0 °C

[70 MPa](#)

## Thermal

Property	Temperature	Value	Comment
Coefficient of thermal expansion	23.0 °C	<a href="#">1.9E-5 - 2.1E-5 1/K</a>	Typical for Wrought 8000 Series Aluminium
Melting point		<a href="#">645 - 655 °C</a>	Typical for Wrought 8000 Series Aluminium
Specific heat capacity	23.0 °C	<a href="#">920 J/(kg·K)</a>	Typical for Wrought 8000 Series Aluminium
Thermal conductivity	23.0 °C	<a href="#">167 - 220 W/(m·K)</a>	Typical for Wrought 8000 Series Aluminium

## Electrical

Property	Temperature	Value	Comment
Electrical conductivity	23.0 °C	<a href="#">2.80E+7 - 3.50E+7 S/m</a>	Typical for Wrought 8000 Series Aluminium
Electrical resistivity	23.0 °C	<a href="#">2.8E-8 - 3.5E-8 Ω·m</a>	Typical for Wrought 8000 Series Aluminium

## Chemical properties

Property	Value
Copper	<a href="#">0.3 %</a>
Iron	<a href="#">1.2 - 2 %</a>
Magnesium	<a href="#">0.1 %</a>

**Manganese**      [0.3 - 1 %](#)

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**Other**              each 0.05, total 0.15, Rest Al

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**Silicon**            [0.4 %](#)

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**Zinc**                [0.1 %](#)

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