

# 8006 H24 Aluminum Foil

## Mechanical

Property	Temperature	Value	Comment
Elastic modulus	23.0 °C	<a href="#">70 GPa</a>	
Elongation A100	20.0 °C	<a href="#">3 - 10 %</a>	
Elongation A50	20.0 °C	<a href="#">3 - 10 %</a>	
	23.0 °C	<a href="#">3 - 9 %</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
Shear modulus	23.0 °C	<a href="#">25 GPa</a>	
Tensile strength	20.0 °C	<a href="#">110 - 170 MPa</a>	
	23.0 °C	<a href="#">110 - 170 MPa</a>	
Yield strength	23.0 °C	<a href="#">90 MPa</a>	
Yield strength Rp0.2	20.0 °C	<a href="#">90 MPa</a>	
	23.0 °C	<a href="#">90 MPa</a>	

## Thermal

Property	Temperature	Value	Comment
Coefficient of thermal expansion	100.0 °C	<a href="#">2.4E-5 1/K</a>	20-100°C
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

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Thermal conductivity	23.0 °C	<a href="#">190 - 210 W/(m·K)</a>
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## 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="#">3.1E-8 Ω·m</a>	

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## Chemical properties

Property	Value
Copper	<a href="#">0.3 %</a>
Iron	<a href="#">1.2 - 2 %</a>
Magnesium	<a href="#">0.1 %</a>
Manganese	<a href="#">0.3 - 1 %</a>
Other	each 0.05, total 0.15, Rest Al
Silicon	<a href="#">0.4 %</a>
Zinc	<a href="#">0.1 %</a>

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## Technological properties

Property	
Anodizing	Limited

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Application areas

Facades: Single sheet, Sheets for composites/ sandwich Panels; Roofing: Foil for bituminous coating; Doors: Sheets for composites/ sandwich Panels; Electronic devices: Housing of devices; Heat exchangers: Fins, Heat exchangers, General applications; Tubes: Industrial tubes, Flexible tubes, Pipes; Insulation; Semi-rigid and corrugated: Pet food, Smooth wall; Components: Automotive fins, Heat exchangers

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<b>Corrosion properties</b>	Limited
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<b>Welding</b>	Good
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<b>Workability</b>	Very Good
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