

3004 H16 Aluminum Sheet

Properties

General

Property	Temperature	Value
Density	23.0 °C	2.8 g/cm³

Mechanical

Property	Temperature	Value	Comment
Elastic modulus	23.0 °C	69 GPa	
Elongation	23.0 °C	1.2 %	
Plane-Strain Fracture Toughnes	23.0 °C	22 - 35 MPa·√m	Typical for Wrought 3000 Series Aluminium
Poisson's ratio	23.0 °C	0.33 [-]	Typical for Wrought 3000 Series Aluminium
Shear modulus	23.0 °C	25 - 26 GPa	Typical for Wrought 3000 Series Aluminium
Tensile strength	23.0 °C	260 MPa	
Yield strength	23.0 °C	230 MPa	

Thermal

Property	Temperature	Value
	23.0 °C	2.4E-5 1/K

Coefficient of thermal expansion

Melting point

[630 °C](#)

Specific heat capacity

23.0 °C

[890 J/\(kg·K\)](#)

Thermal conductivity

23.0 °C

[160 W/\(m·K\)](#)

Electrical

Property	Temperature	Value	Comment
Electrical conductivity	23.0 °C	2.30E+7 - 2.90E+7 S/m	Typical for Wrought 3000 Series Aluminium
Electrical resistivity	23.0 °C	3.4E-8 - 4.2E-8 Ω·m	Typical for Wrought 3000 Series Aluminium

Chemical properties

Property	Value
Aluminium	95.6 - 98.2 %
Copper	0 - 0.25 %
Iron	0 - 0.7 %
Magnesium	0.8 - 1.3 %
Manganese	1 - 1.5 %
Other	0 - 0.15 %
Silicon	0 - 0.3 %
Zinc	0 - 0.25 %

Technological properties

Property

Workability

Good workability.
