

# 1060 H14 Aluminum Sheet

## Properties

### General

| Property | Temperature | Value                     | Comment                                   |
|----------|-------------|---------------------------|---|
| Density  | 23.0 °C     | <a href="#">2.7 g/cm³</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 |
|----------|-------------|-------|---------|
|----------|-------------|-------|---------|

|   |         |                                     |   |
|---|---------|-------------------------------------|---|
| <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.