

# 5052 H32 Aluminum Coil

## General

Property	Temperature	Value
Density	20.0 °C	<a href="#">2.7 g/cm<sup>3</sup></a>

## Mechanical

Property	Temperature	Value
Elastic modulus	20.0 °C	<a href="#">70 GPa</a>
Elongation	20.0 °C	<a href="#">12 %</a>
Elongation A50	20.0 °C	<a href="#">4 - 12 %</a>
Hardness, Brinell	20.0 °C	<a href="#">60 [-]</a>
Tensile strength	20.0 °C	<a href="#">215 - 240 MPa</a>
Yield strength	20.0 °C	<a href="#">180 MPa</a>
Yield strength Rp0.2	20.0 °C	<a href="#">160 - 195 MPa</a>

## Thermal

Property	Temperature	Value
Coefficient of thermal expansion	20.0 °C	<a href="#">2.4E-5 1/K</a>
Melting point		<a href="#">610 °C</a>
Specific heat capacity	20.0 °C	<a href="#">900 J/(kg·K)</a>

## Chemical properties

Property	Value
Aluminium	<a href="#">95.8 - 97.7 %</a>
Chromium	<a href="#">0.15 - 0.35 %</a>
Copper	<a href="#">0.1 %</a>
Iron	<a href="#">0.4 %</a>
Magnesium	<a href="#">2.2 - 2.8 %</a>
Manganese	<a href="#">0.1 %</a>
Other	<a href="#">0.15 %</a>
Silicon	<a href="#">0.25 %</a>
Zinc	<a href="#">0.1 %</a>