

5052 H32 Aluminum Sheet

General

Property	Temperature	Value
Density	20.0 °C	2.7 g/cm³

Mechanical

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

Thermal

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

Chemical properties

Property	Value
Aluminium	95.8 - 97.7 %
Chromium	0.15 - 0.35 %
Copper	0.1 %
Iron	0.4 %
Magnesium	2.2 - 2.8 %
Manganese	0.1 %
Other	0.15 %
Silicon	0.25 %
Zinc	0.1 %