

General

Property	Standard	Unit	Value
Density	-	g/cm ³	2.71
Aluminium (Al)	EN AW-1050A	%	≥ 99.5
Silicon (Si)	EN AW-1050A	%	≤ 0.25
Iron (Fe)	EN AW-1050A	%	≤ 0.40
Magnesium (Mg)	EN AW-1050A	%	≤ 0.05

Mechanical

Property	Standard	Unit	Value
Tensile strength	EN 485-2	MPa	40 - 90
Elongation at break	EN 485-2	%	≥ 20
Yield strength (0.2% offset)	EN 485-2	MPa	≥ 20
Hardness (Brinell)	EN 485-2	HB	20 - 30

Thermal

Property	Standard	Unit	Value
Thermal conductivity	-	W/m·°C	222 - 235
Linear expansion coefficient	-	10 ⁻⁶ /°C	23.1
Long-term operating temperature (unloaded)	-	°C	-196 / 250
Maximum short-term operating temperature	-	°C	300

Electrical

Property	Standard	Unit	Value
Electrical resistivity	-	Ω·m	2.8 × 10 ⁸

Temperature Range

Temperature	Unit	Value
Minimum operating temperature	°C	-196
Maximum operating temperature	°C	300

Additional Properties

Property	Behavior
Weldability	Excellent
Corrosion resistance	Excellent
Machinability	Good