

General

Property	Standard	Unit	Value
Density	-	g/cm ³	2.66
Magnesium (Mg)	EN AW 5754	%	2.6 - 3.6
Silicon (Si)	EN AW 5754	%	≤ 0.40
Iron (Fe)	EN AW 5754	%	≤ 0.40
Manganese (Mn)	EN AW 5754	%	0.5 - 1.0

Mechanical

Property	Standard	Unit	Value
Tensile strength	EN 485-2	MPa	190 - 240
Elongation at break	EN 485-2	%	≥ 12
Yield strength (0.2% offset)	EN 485-2	MPa	80 - 110
Hardness (Brinell)	EN 485-2	HB	60 - 80

Thermal

Property	Standard	Unit	Value
Thermal conductivity	-	W/m·°C	125 - 140
Linear expansion coefficient	-	10 ⁻⁶ /°C	24
Long-term operating temperature (unloaded)	-	°C	-196 / 80
Maximum short-term operating temperature	-	°C	150

Electrical

Property	Standard	Unit	Value
Electrical resistivity	-	Ω·m	4.7 × 10 ⁸

Temperature Range

Temperature	Unit	Value
Minimum operating temperature	°C	-196
Maximum operating temperature	°C	150

Additional Properties

Property	Behavior
Weldability	Excellent
Corrosion resistance	Very good
Machinability	Excellent