

Material type

Metal

Material name

Aluminum 6061-T6 | 3.3211| 65028| AlMg1SiCu

Alternative names

AlMg1SiCu, 3.3211

Process compatibility

CNC machining**Mechanical properties**

Ultimate tensile strength	260-310 MPa
Yield strength	240-270 MPa
Young's modulus (modulus of elasticity)	68 - 74 GPa
Elongation at break	8-11 %

Thermal properties

Maximum service temperature	130 - 150 °C
Thermal expansion coefficient	22,7 - 23,9 10 ⁻⁶ /°C
Thermal conductivity	152 - 169 W/(m·°C)

Post treatments

Post-Processing	Annealing & Cold working
Anodizing compatibility	Suitable

Physical properties

Corrosion resistance	High
Magnetism	Non-magnetic
Weldability	High

Electrical properties

Electrical resistivity	3.9 - 4.1 μΩ*cm
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Common applications

Automotive industry
Marine industry
Electrical fittings
Couplings & valves

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