

Material type

Metal



Material name

Aluminum 2024-T351 | 3.1355 | 24530 | AlCu4Mg1

Alternative names

AlCu4Mg1, 3.1355

Process compatibility

CNC machining

Mechanical properties

Ultimate tensile strength	395-470 MPa
Yield strength	275-310 MPa
Young's modulus (modulus of elasticity)	71 - 73.1 GPa
Elongation at break	9-15 %

Thermal properties

Maximum service temperature	200 °C
Thermal expansion coefficient	23 - 24.7 10 ⁻⁶ /°C
Thermal conductivity	121 W/(m·°C)

Post treatments

Post-Processing	Hot & cold working, Age hardening
Anodizing compatibility	Suitable

Physical properties

Corrosion resistance	Poor
Magnetism	Non-magnetic
Weldability	Good

Electrical properties

Electrical resistivity	5.82 μΩ*cm
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Common applications

- Aircraft fuselage
- Commercial & military aircraft
- Wing tension members
- Critical Aircraft structures

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