

Material type

Metal

Material name

Aluminum 7075-T6 | 3.4365 | 76528 | AlZn5,5MgCu

Alternative names

AlZn5,5MgCu, 3.4365

Process compatibility

CNC machining**Mechanical properties**

Ultimate tensile strength	520-560 MPa
Yield strength	460-470 MPa
Young's modulus (modulus of elasticity)	69 - 76 GPa
Elongation at break	6-9 %

Thermal properties

Maximum service temperature	100 °C
Thermal expansion coefficient	22,9 - 24,1 10 ⁻⁶ /°C
Thermal conductivity	131 - 137 W/(m·°C)

Post treatments

Post-Processing	Annealing & Cold working
Anodizing compatibility	Not recommended - due to the high amount of zinc that the material contains, dark spots or corroded marks may be observed

Physical properties

Corrosion resistance	Moderate
Magnetism	Non-magnetic
Weldability	Poor

Electrical properties

Electrical resistivity	5,2 μΩ*cm
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Common applications

Aircraft and aerospace
Marine
Transportation

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