

Material type

Metal

Material name

Aluminum 7050 | EN AW-7050 | 3.4144| AlZn6CuMgZr

Alternative names

AlZn6CuMgZr

Process compatibility

CNC machining**Mechanical properties**

Ultimate tensile strength	470-530 MPa
Yield strength	390-460 MPa
Young's modulus (modulus of elasticity)	70 - 80 GPa
Elongation at break	5-12 %

Thermal properties

Thermal expansion coefficient	23 - 25.4 10 ⁻⁶ /°C
Thermal conductivity	153 W/(m·°C)

Post treatments

Post-Processing	Cold working, Aging, Hardening
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	Good
Magnetism	Non-magnetic
Weldability	Poor

Electrical properties

Electrical resistivity	4.4 μΩ*cm
------------------------	-----------

Common applications

Fuselage frames
Bulkheads
Wing skins
Aerospace structures
Commercial & military aircraft applications

ZartLink is The Global First FairPrice Flex Manufacturing Platform for Future. From rapid prototyping to production, provide global clients quality parts with cheaper prices.

Prototyping | 3D Printing | CNC Machining | Vacuum Casting | Custom Mold Components
Export Tooling | Rapid Molding | Injection Molding | Metal Casting
quote@zartlink.com