

Material type

Metal

Material name

Aluminum 5052 | EN AW-5052 | 3.3523 | AlMg2,5

Alternative names

AlMg2,5 , 3.3523

Process compatibility

CNC machining**Mechanical properties**

Ultimate tensile strength	170-210 MPa
Yield strength	70-120 MPa
Young's modulus (modulus of elasticity)	68 - 71 GPa
Elongation at break	7-20 %

Thermal properties

Maximum service temperature	190 °C
Thermal expansion coefficient	23.8 - 25.7 10 ⁻⁶ /°C
Thermal conductivity	138 - 140 W/(m·°C)

Post treatments

Post-Processing	Hot & Cold working, Hardening only by cold working
Anodizing compatibility	Suitable

Physical properties

Corrosion resistance	Good
Magnetism	Non-magnetic

Electrical properties

Electrical resistivity	4.99 μΩ*cm
------------------------	------------

Common applications

Hydraulic tubes
Kitchen appliances
Cabinets
Small boats
Home freezers

Aircraft tubes

Fencing

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