Aluminum 2017A | 3.1325 | 24530 | AlCu4MgSi

Aluminum 2017A offers good CNC machinability with high strength and corrosion resistance.

Mechanical properties

Ultimate tensile strength	250-400 MPa
Yield strength	110-270 MPa
Young's modulus (modulus of elasticity)	16-19 GPa
Elongation at break	14 - 22 %

Physical properties

Corrosion resistance	Fair
Magnetism	Non-magnetic
Weldability	Good

Thermal properties

Maximum service temperature	190 °C
Thermal expansion coefficent	23.6 - 25.4 10^-6/ºC
Thermal conductivity	134 - 150 W/(m·°C)

Electrical properties

Electrical resistivity	5.15 µΩ*cm

Post treatments

Post-Processing	Annealing, Aging
Anodizing compatibility	Suitable

Common applications

Pulleys and gauges	

Rivets	
General structural components	
Fasteners	
Aircraft components	
Screw machine products and fittings	

Aluminum 2017A CNC Machining Applications & Parts

Aluminum 2017A is a high-strength, heat-treatable alloy with good machinability. It is widely used for screws, fasteners, and various high-strength parts in the automotive and aerospace industries.

Typical Parts We Machine from 2017A:

- **Fasteners & Screws:** High-strength bolts, nuts, rivets, and other threaded components
- **Automotive & Aerospace:** Cylinder heads, pistons, aircraft fittings, and truck wheels

Our Machining Advantage:

We expertly machine 2017A to produce parts with excellent chip-breaking characteristics, resulting in high-quality threads and precise features for critical fastener applications.

Get an Instant Quote for your custom Aluminum 2017A parts today.