Aluminum 6061-T651 | 3.3211 | 65028 | AlMg1SiCu

Aluminum 6061-T651 is stress-relieved plate for precision CNC machining.

Mechanical properties

Ultimate tensile strength	290 - 330 MPa
Yield strength	250 -270 MPa
Elongation at break	8 - 11 %

Physical properties

Corrosion resistance	High
Magnetism	Non-magnetic
Weldability	High

Thermal properties

Maximum service temperature	170 °C
Thermal conductivity	167-170 W/(m·°C)

Post treatments

Post-Processing	Annealing & Cold working
Anodizing compatibility	Suitable

Common applications

Automotive Industry	
Aerospace Industry	
Marine Industry	
Sporting Goods	
Construction Industry	

Aluminum 6061-T651 CNC Machining Applications & Parts

The T651 temper provides 6061 with enhanced dimensional stability for precision machining. This alloy remains the workhorse for applications requiring a superb balance of strength, corrosion resistance, and machinability in a stable condition.

Typical Parts We Machine from 6061-T651:

- **Precision Components:** Optical mounts, laser housing, measuring instrument frames, actuator parts
- **Aerospace & Defense:** Missile guidance system parts, satellite components, radar bases
- **Automotive:** Master cylinder bodies, transmission parts, precision suspension linkages

Our Machining Advantage:

We utilize the stability of the T651 temper to consistently hold micron-level tolerances on complex parts, making it ideal for high-accuracy applications in aerospace and optics.

Get an Instant Quote for your custom Aluminum 6061-T651 parts today.