Aluminum 7075-T651 | 3.4365 | 76528 | AlZn5.5MgCu

Aluminum 7075-T651 is stress-relieved high-strength plate for precision parts.

Mechanical properties

Ultimate tensile strength	520-560 MPa
Yield strength	460-470 MPa
Elongation at break	6-9 %

Thermal properties

Thermal conductivity	130 W/(m·°C)

Post treatments

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

Common applications

Fuse parts	
Structural components	

Aluminum 7075-T651 CNC Machining Applications & Parts

The T651 temper is the most common high-strength condition for 7075 aluminum. It provides the highest strength but is more susceptible to stress-corrosion cracking in the short-transverse direction than T7351.

Typical Parts We Machine from 7075-T651:

- **High-Stress Components:** Aircraft fittings, gears, shafts, and other parts primarily stressed in the longitudinal direction
- **Molds & Tooling:** Master models, foundry patterns, injection molds

Our Machining Advantage:

We understand the grain orientation and stress characteristics of 7075-T651, allowing us to machine parts that maximize its unparalleled strength for applications where ultimate performance is required.

Get an Instant Quote for your custom Aluminum 7075-T651 parts today.