PROTOLABS
Manufacturing. Accelerated.

Aluminum 7075-T651/T6

Aluminum 7075 is an alloy with zinc as the primary alloying element. It has excellent mechanical properties and exhibits high strength, toughness, and resistance to fatigue. It has higher corrosion resistance than other aluminums, making it a great option for aerospace applications.

Applications

Common applications include aircraft fittings, automotive parts, gears, shafts, fuse parts, housing, valves, bicycle frames, and other aircraft and aerospace applications.

Key Product Benefits

- Corrosion Resistance
- Toughness
- Ductility
- High Strength and Hardness
- Low Weight
- Fatigue Resistance
- Excellent Machinability
- Electrical Conductivity

Properties

Temper	System	Thickness	Tensile Strength	Yield Strength	Elongation	Brinell Hardness
T6 Sheet	Imperial	0.008-0.249 in	74-78 ksi	63-69 ksi	5-8%	150
	Metric	0.203-6.32 mm	510-538 MPa	434-476 MPa	5-8%	150
T651 Plate	Imperial	0.250-4.000 in	67-78 ksi	54-67 ksi	3-9%	150
	Metric	6.35-101.60 mm	462-538 MPa	372-462 MPa	3-9%	150