TECHNICAL DATA
Aluminum 7075

Offering higher strength compared to other aluminum alloys, Aluminum 7075 screws are most commonly used by aerospace for their combination of high strength and low weight. These fasteners offer the strength of many grades of steel at a fraction of the density (2.81 g/cc | 0.102 lb/in³). Aluminum 7075 bolts can be tempered to several different conditions (including 7075-T6), each offering various levels of strength.

Properties

Ultimate Tensile Strength	33 ksi 73.2 ksi 83 ksi	7075-O 7075-T73 7075-T6
Yield Strength at 0.2%	15 ksi 63.1 ksi 73 ksi	7075-O 7075-T73 7075-T6
Elongation %	16 13 11	7075-O 7075-T73 7075-T6
Usable Temperature Limit	752˚F / 400˚C	

Key Benefits

- High strength with good fatigue strength
- Lightness: Weighs about 1/3 of steel
- Good ductility and toughness
- Economic strength-to-weight ratio
- Low density
- Non-magnetic

Chemistry & Specifications

Aluminum 7075-T6	Al	Zn	Mg	Cu	Fe	Si	Mn	Ti	Cr	Other
Typical %	Bal	5.1-6.1	2.1-2.9	1.2-2.0	0.50	0.40	0.30	0.20	0.18-0.28	0.05 each / 0.15 total

SPECIFICATIONS: UNS A97075, QQ-A-200/11, AMS-QQ-A-200/11, ASTM-B211, AMS 4154

Material Data