

2017A Aluminium

Product Datasheet



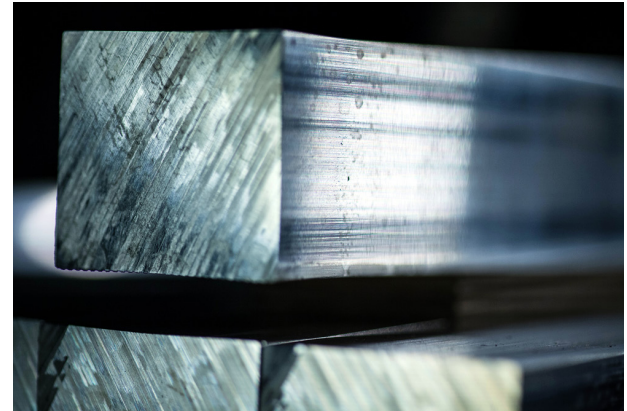
High Strength Aluminium Alloy

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Heat Treatable Wrought Aluminium

2017A aluminium alloy is a heat treatable, wrought aluminium product which includes the significant addition of copper as an added alloying element.

The material offers an attractive combination of high strength with excellent fatigue resistance. 2017A offers good corrosion resistance though traditional welding is not possible as the corrosion resistance characteristics would be affected. The alloy can only be welded using resistance welding techniques. With superior strength, ductility and formability, 2017A aluminium is commonly used in engineering applications. The material also offers greater strength when compared to 2011 aluminium.



Key Features

- High strength
- Excellent fatigue resistance
- Fair workability
- Good corrosion resistance
- Welding not recommended

Applications

- Rivets
- Fasteners
- Aerospace components
- Automotive components
- High strength structural components

Availability

Plate, sheet, flats, round bar, round tube, square bar, hexagonal bar

Chemical Composition (weight %)

Weight (%)	Si	Fe	Cu	Mn	Mg	Cr	Zn	Zr + Ti	Others (Ea)	Others (total)
Min	0.20		3.5	0.40	0.40					
Max	0.80	0.70	4.5	1.0	1.0	0.10	0.25	0.25	0.05	0.15

Mechanical Properties (2017 round bar)

Tensile Strength (N/mm ²) min		Yield Strength		Elongation in 4D %
ksi	MPa	ksi	MPa	
55	379	32	221	12

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