

Aluminium Alloy

7075 T6/T651



Product Information

Aluminium alloy 7075 is a very high strength aerospace aluminium and it is commonly used in applications where strength is critical and where the need for good corrosion resistance is not important. Offering superior stress corrosion resistance 7075 provides very high yield and tensile strengths which can be dictated by the chosen temper.

Typical Applications

- Automotive
- Aerospace
- Gears and shafts

Temper Types

T6	Solution heat treated and artificially aged.
T651	Solution heat treated, stress relieved by stretching then artificially aged.
T6511	Solution heat treated and stress relieved by stretching then artificially aged with minor straightening after ageing – Equivalent to T4 condition

Available Forms

Sheet, plate, bar.

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MG METALS

Chemical Composition

	Si	Fe	Cu	Mn	Cr	Mg	Zn	Ti	Al	Other
Min.	–	–	1.20	–	0.18	2.10	5.10	–	Bal	–
Max.	0.40	0.50	2.00	0.30	0.28	2.90	6.10	0.20	Bal	0.15

Typical Physical and Mechanical Properties	Typical Values
Density	2.81 g/cm ³
Melting point	635°C
Modulus of elasticity	72 GPa
Thermal conductivity	134-160 W/m.k
Electrical Resistivity	40% IACS