

Chemical Composition

Si	0.4	Fe	0.5
Cu	1.2-2.0	Mn	0.3
Mg	2.1-2.9	Cr	0.18-0.28
Ni	-	Zn	5.1-6.1
Ti	0.2	Other Each	0.05
Other Total	0.15		

7075 Aluminium Plate

Aluminium alloy 7075 is the most commonly used alloy for aerospace applications. Due to the addition of zinc and copper, 7075 is one of the highest strength aluminium alloys available and is comparable to many steels. 7075 is considered to have good machinability and corrosion resistance and can be highly polished.

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Rectangular sections from 25mm³ up to 430 X 430 X 150mm can be delivered fine milled on all six faces to -0+0.1mm and with squareness guaranteed to 0.1mm/m.

Physical Properties

Hardness, Brinell	150
Hardness, Rockwell A	53.5
Hardness, Rockwell B	87
Hardness, Vickers	175
Ultimate Tensile Strength	572 MPa 83,000 psi
Tensile Yield Strength	503 MPa 73,000 psi
Elongation at Break	11%

Availability

Material thicknesses available from stock from 5mm up to 60mm.