

Kormax Aluminium 7075

Material Data Sheet

7075 Aluminium Alloy (AA7075) is an Aluminium Alloy, with Zinc as the primary alloying element. It has excellent mechanical properties, and exhibits good ductility, high strength, toughness and good resistance to fatigue. It is one of the most commonly used Aluminium Alloys for highly stressed structural applications and has been extensively utilized in aircraft structural parts.

Chemical Composition (%)

Element		
Aluminium	Al	Balance
Zinc	Zn	5.1-6.1
Magnesium	Mg	2.1-2.9
Copper	Cu	1.2-2.0
Chromium	Cr	0.18-0.28
Manganese	Mn	0.3 max
Titanium	Ti	0.2 max
Silicon	Si	0.4 max
Iron	Fe	0.5

Mechanical Properties

	Metric Values	Imperial Values
Tensile Strength Min	570 N/mm ²	83,000 psi
Yield Strength Min	503 N/mm ²	73,000 psi
Elongation Min	7.9%	7.9%
Hardness Min	150 BHN	150 BHN
Specific Gravity	2.7 g/cm ³	

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