

Aluminium 2017A

Al-Cu4MgSi / 9002/2 / T451 / AlCuMg1

Also known as T451, aluminium 2017A is a 2000-series alloy characterised by high mechanical strength and good machinability, ideal for high-performance applications in the aerospace, automotive and industrial sectors.



Material properties

Density		2,78	g/cm ³
Tensile strength	ISO 6892	415	MPa
Elongation at break	ISO 6892	6-15	%
Yield strength	ISO 6892	240-270	MPa
Elastic modulus	ISO 6892	72	GPa
Hardness	ISO 6508	110	HB
Melting temperature		510-640	°C
Thermal conductivity (20°C)		125-140	W/mK
Electrical resistivity		0,0196	Ωmm ² /m

Main alloy elements

Aluminium - Copper - Manganese - Magnesium

Maximum dimensions

700x700x500 mm (27.6x27.6x5.9 in)

Tolerances

ISO 2768-1 classe fine (f) o media (m)

Applications

It is usually used for aeronautical and hydraulic components and rubber and plastic injection moulds. It is also popular in footwear and fashion moulding (boots, EVA bags and soles).

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