

Aluminium 6082

Anticorodal / 9006/4 / AlMgSi1 / 3.2315 / H30 / A-SGM0.7 / P-ALSi1MgMn

Versatile alloy with an excellent combination of mechanical and physical properties. Thanks to its suitability for machining and welding and its good chemical resistance, it is ideal for a wide variety of applications.



Material properties

Density		2,7	g/cm ³
Tensile strength	ISO 6892	285	MPa
Elongation at break	ISO 6892	6	%
Yield strength	ISO 6892	230-240	MPa
Elastic modulus	ISO 6892	69,5	GPa
Hardness	ISO 6508	100	HB
Melting temperature		645	°C
Thermal conductivity (20°C)		170	W/mK
Electrical resistivity		0,04	Ωmm ² /m

Main alloy elements

Aluminium - Magnesium - Manganese - Silicon

Maximum dimensions

500x500x300 mm (19.7x19.7x11.8 in)

Tolerances

ISO 2768-1 fine (f) or medium (m) class

Applications

It is widely used in the transport industry, ideal for components such as railway carriages, truck bodies and trailers. It is also used in the construction industry, ideal for components such as roofing and cladding. In the sporting goods industry, it is used for components such as bicycle frames and sports equipment due to its high strength-to-weight ratio. It is also used in the electrical industry for busbars and electrical connectors.

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