

Aluminium 5083

Peraluman / 9005/5 / AlMg4.5Mn / 3.3547 / A-G4.5MC / P-AlMg4.5

Lightness, ease to weld and high chemical resistance are the main features of this alloy. It is used for parts to be joined together or if excellent corrosion resistance is required over long periods, such as in marine environments.



Material properties

Density		2,66	g/cm ³
Tensile strength	ISO 6892	275	MPa
Elongation at break	ISO 6892	16	%
Yield strength	ISO 6892	110	MPa
Elastic modulus	ISO 6892	71	GPa
Hardness	ISO 6508	75	HB
Melting temperature		570	°C
Thermal conductivity (20°C)		105-120	W/mK
Electrical resistivity		0,06	Ωmm ² /m

Main alloy elements

Aluminium - Magnesium - Silicon

Maximum dimensions

500x500x400 mm (19.7x19.7x15.7 in)

Tolerances

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

Applications

Shipbuilding, aerospace, automotive, construction.

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