

Aluminium 7021

AlZn4.5Mg1 / AW-7021

Also known as AlZn4.5Mg1, it's a high-strength alloy typically used in applications that require superior hardness, toughness, and good resistance to wear and corrosion.



Material properties

Density		2,9	g/cm ³
Tensile strength	ISO 6892	460	MPa
Elongation at break	ISO 6892	9,4	%
Yield strength	ISO 6892	390	MPa
Elastic modulus	ISO 6892	69	GPa
Hardness	ISO 6508	110-120	HB
Melting temperature		630	°C
Thermal conductivity (20°C)		150	W/mK
Electrical resistivity		0,045	Ωmm ² /m

Main alloy elements

Aluminium- Zinc - Magnesium

Maximum dimensions

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

Tolerances

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

Applications

Transport, automotive, aerospace, marine, machinery and manufacturing equipment.

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