

Aluminium 2011

Avional / 9002/5 / AlCuBiPb / 3.1655 / BS FC1 / AFNOR A-U5PbBi

Aluminium alloy 2011 is mainly used in precision parts such as screws and bolts. It is composed by additions of aluminium and copper that improve its hardness and strength.



Material properties

Density		2,83	g/cm ³
Tensile strength	ISO 6892	245	MPa
Elongation at break	ISO 6892	9	%
Yield strength	ISO 6892	200	MPa
Elastic modulus	ISO 6892	70	GPa
Hardness	ISO 6508	110	HB
Melting temperature		640	°C
Thermal conductivity (20°C)		150	W/mK
Electrical resistivity		0,04	Ωmm ² /m

Main alloy elements

Aluminium - Copper - Zinc

Maximum dimensions

150x150x500 mm (5.9x5.9x19.7 in)

Tolerances

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

Applications

This material is suggested for the production of precision parts requiring complex machining, such as gears, screws and bolts. It is used in industries where precise, high-strength components are required, such as automotive, aerospace and electronics.

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