

6026 ALUMINIUM

COMMERCIAL ALUMINIUM ALLOY

PRODUCT DESCRIPTION

6026 aluminium alloy is suitable for anodising to provide both hard anodised and decorative finishes, The alloy was recently developed to meet the requirements of the European Environmental Protection Directives and offers excellent corrosion resistance. The alloy is highly suited to extensive machining particularly in use on high speed automatic lathes. 6026 does not contain Tin (Sn) as an alloying element as its inclusion can cause cracking in machine parts when subjected to stress and elevated temperature. Stock availability - bar.



KEY FEATURES

- Suitable for anodising
- For use on high speed automatic lathes
- Excellent corrosion resistance
- Meets EU Environmental Directive

APPLICATIONS

- Electrical parts, machined components
- Automotive components
- Braking systems
- Hot forging

MATERIAL SPECIFICATIONS

- A95754
- Al Mg3
- Al 3.1Mg Mn Cr
- AW-5754

EU Environmental Protection Directive - complies with 2000/53/CE-ELV (automotive) and 2002/95/CE-RoHS (electrical)

MACHINABILITY

Can be used in place of alloys 6082 and 6081, especially where finished parts require extensive machining on high speed automatic lathes.

CHEMICAL COMPOSITION (weight %)

	Bi	Si	Mg	Mn	Cu	Fe	Pb	Zn	Cr	Ti	Sn	Al	Other
Min	0.50	0.60	0.60	0.20	0.20							Bal	0.05
Max	1.50	1.40	1.20	1.00	0.50	0.70	0.40	0.30	0.30	0.20	0.05	Bal	0.15

MECHANICAL PROPERTIES

Tensile Strength	360 MPa min
Elongation A50 mm	4%
Proof Stress	330 MPa min
Brinell Hardness	95 HB min

PHYSICAL PROPERTIES

Density	2.72 g/cm ³
Thermal Expansion	23.4 x10 ⁻⁶ /K
Modulus of Elasticity	69 GPa
Thermal Conductivity	138 W/m.K