

Aluminium Alloy

6026 - T9



MG METALS

Product Information

Aluminium alloy 6026 is a recently developed alloy which offers excellent corrosion resistance and is also suitable for both decorative and hard anodising finishes.

This alloy contains no tin (Sn) as this element can cause weakness and cracking in machined parts when subjected to stress and high temperatures.

Alloy 6026 meets European Environmental Protection Directives and complies with;
2000/53/CE-ELV – Automotive sector.
2002/95/CE-RoHS – Electrical and Electronics sector.

Typical Applications

- Electrical and electronic parts
- Machined components
- Decorative anodising
- Hard anodising
- Automotive components including braking systems
- High speed automatic lathes

Temper Types

T9	Solution heat treated, artificially aged and cold worked (most common).
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Related Specification

- Al 3.1MgMnCr
- A95754
- AlMg3
- AW-5754

Available Forms

Alloy 6026 is supplied in drawn / extruded bar.

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Chemical Composition

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

Typical Physical and Mechanical Properties	Typical Values
Density	2.72 g/cm ³
Melting point range	580 - 650°c
Modulus of elasticity	69 GPa
Thermal conductivity	172 W/m.k
Tensile strength	360 MPa Min
Proof stress	330 MPa Min
Elongation	4%
Hardness Brinell	95 HB Min

Machinability

Aluminium alloy 6026 can be used instead of alloys 6082 or 6081, especially where the finished parts need extensive machining on high-speed automatic lathes and machining centres.

Weldability

Aluminium alloy 6026 can be easily welded.