

SPECIFICATIONS

Commercial	6026
EN	6026

Aluminium alloy 6026 is a recent developed alloy meeting the following European Environmental Protection Directives:

2000/53/CE-ELV – For the automotive sector

2002/95/CE-RoHS – For the electrical and electronics sector

Alloy 6026 does not contain Tin (Sn) which can cause weakness and cracking of machined parts when subjected to stress and high temperature.

Alloy 6026 has excellent corrosion resistance and is suitable for anodising to provide both decorative and hard anodised finishes.

Alloy 6026 is a good alternative to alloys 6061 and 6082. Extruded Bars in alloy 6026 have the same minimum tensile strength as alloys 2011 & 2030.

Applications

6026 can be used in place of alloys 6082 or 6081, especially where the finished parts require extensive machining

~ Machined Parts – Especially on high speed automatic lathes

~ Decorative Anodising

~ Hard Anodising

~ Hot Forging

~ Automotive Components such as Brake Systems

~ Electrical & Electronic Parts

CHEMICAL COMPOSITION

Element	% Present
Bismuth (Bi)	0.50 - 1.50
Silicon (Si)	0.60 - 1.40
Magnesium (Mg)	0.60 - 1.20
Manganese (Mn)	0.20 - 1.00
Copper (Cu)	0.20 - 0.50
Iron (Fe)	0.0 - 0.70
Lead (Pb)	0.0 - 0.40
Zinc (Zn)	0.0 - 0.30
Chromium (Cr)	0.0 - 0.30
Titanium (Ti)	0.0 - 0.20
Others (Total)	0.0 - 0.15
Other (Each)	0.0 - 0.05
Tin (Sn)	0.0 - 0.05
Aluminium (Al)	Balance

TEMPER TYPES

The most common temper for 6026 aluminium is:

- T9 - Solution heat treated, artificially aged and cold worked

SUPPLIED FORMS

Alloy 6026 is typically supplied as extruded and/or drawn bar

- Bar

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.72 g/cm ³
Thermal Expansion	23.4 x10 ⁻⁶ /K
Modulus of Elasticity	69 GPa
Thermal Conductivity	172 W/m.K
Electrical Resistivity	0.039 x10 ⁻⁶ Ω .m

MECHANICAL PROPERTIES

6026 T9 Extruded and Drawn Bar	
Property	Value
Proof Stress	330 Min MPa
Tensile Strength	360 Min MPa
Elongation A50 mm	4 Min %
Hardness Brinell	95 Min HB

MACHINABILITY

6026 can be used in place of alloys 6082 or 6081, especially where the finished parts require extensive machining on high speed automatic lathes and machining centres

WELDABILITY

Weldability of alloy 6026 is good

CONTACT

Address: Please make contact directly with your local service centre, which can be found via the Locations page of our web site
Web: www.aalco.co.uk

REVISION HISTORY

Datasheet Updated 07 October 2021

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