

Aluminium Alloy 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.

Alloys 6026 is a good alternative to alloys 6061 and 6082

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

Mechanical Properties

(Extruded Bars in alloy 6026 have the same minimum tensile strength as alloys 2011 & 2030)

Minimum Guaranteed	T9 (Drawn)
Proof Stress 0.2% (MPa)	330
Tensile Strength (MPa)	360
Elongation A5 (%)	4
Brinell (HBW)	95

Welding

Weldability of alloy 6026 is good.

Chemical Composition

Element	% Present	
	Min	Max
Si	0.6	1.4
Fe	-	0.7
Mn	0.2	1.0
Mg	0.6	1.2
Cu	0.2	0.5
Pb	-	0.4
Bi	0.5	1.5
Zn	-	0.3
Sn	-	0.05
Cr	-	0.3
Ti	-	0.2
Other - Each	-	0.05
Total Other	-	0.15
Al	Balance	

Physical Properties

Property	Value
Density	2.72 g/cm ³
Modulus of Elasticity	69 GPa
Electrical Resistivity	0.057x10 ⁻⁶ Ω.m
Thermal Conductivity	138 W/m.K
Thermal Expansion	23.4x10 ⁻⁶ /K

Supplied Forms

6026 aluminium is typically supplied as extruded and/or drawn bar.

This information is based on our present knowledge and is given in good faith. However, no liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon

As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose. Any advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company.

Any contract between the Company and a customer will be subject to the Company's Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.



Aalco is a registered trademark of Aalco Metals Ltd

© Copyright: Aalco Metals Ltd, 25 High Street, Cobham, Surrey, KT11 3DH

All Data is indicative only and must not be seen as a substitute for the full specification from which it is drawn. In particular, the mechanical property requirements vary widely with temper, product form and product dimensions. For more complete details please refer to the relevant specification – The BS EN Specifications for aluminium are listed on a separate Datasheet.