Commercial Aluminium Alloy

Applications

- Electrical & electronic parts
- Machined parts
- Automotive components
- Hot forging
- Hard anodising
- Braking systems

Product Description

Recently developed to meet European Environmental Protection Directives, 6026 aluminium alloy offers excellent corrosion resistance and is suitable for anodising to provide both decorative and hard anodised finishes. The alloy does not contain Tin (Sn) as inclusion of this element can cause cracking in machine parts when subjected to stress and high temperature. 6026 is highly suitable for extensive machining especially in use with high speed automatic lathes.

EU Environmental Protection Directive - complies with: 2000/53/CE-ELV – For the automotive sector 2002/95/CE-RoHS – For the electrical and electronics

Key features:

- . Excellent corrosion resistance
- Suitable for anodising .
- Meets European Environmental Protection Directives .

Service. Quality. Value.

Does not include Tin (Sn) which can cause cracking in machined parts

Related Material Specifications

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

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.

Availability

Bar

0

Chemical Composition (weight %)													
	Bi	Si	Mg	Mn	Cu	Fe	Pb	Zn	Cr	Ti	Sn	AI	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 Elongation A50 mm **Proof Stress Brinell Hardness**

360 MPa min 4% 330 MPa min 95 HB min

Physical Properties

Density Thermal Expansion Modulus of Elasticity Thermal Conductivity

2.72 g/cm³ 23.4 x10⁻⁶ /K 69 GPa 138 W/m.K

Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

UK Service Centr	es:		Quality & Testing:				
Smiths Belfast Smiths Biggleswade Smiths Birmingham Smiths Bristol Smiths Chelmsford Smiths Gateshead Smiths Horsham	02895 908 897 01767 604 704 0121 728 4940 0117 971 2800 01245 466 664 0191 469 5428 01403 261 981	Smiths Leeds Smiths Manchester Smiths Norwich Smiths Nottingham Smiths Redruth Smiths Verwood Main Office	0113 307 5167 0161 794 8650 01603 789 878 0115 925 4801 01209 315 512 01202 824 347 0845 527 3331	USO 9001 Quality Management Systems CERTIFIED	UKAS TESTING 1930 info@smithmetal.com		

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