

## Aluminium Alloy 6026 (EN AW 6026 AlMgSiBi)

According to EU directives: 2000/53/CE (ELV) - 2011/65/CE (RoHS II)

- Excellent machinability and mechanical strenghtness.
- 6026 is a new alloy: it was inserted in the international register of aluminium producers (Alluminium Association) the 25.06.2004. It is an environment-friendly.
- It has application in automotive, electrician and electronic sector.
- It can be decorative anodized.

		KEY/THICKNESS		
		≤ 140	140 ≤ 200	200 ≤ 250
<b>Physical Properties</b>		<b>T6</b>	<b>T6</b>	<b>T6</b>
<b>Mechanical Properties</b>				
Ultimate tensile strenght Rm[N/mm <sup>2</sup> ]	minimal	370	340	300
Yield strenght Rp 0,2	minimal	300	250	200
Elongation As	minimal	8	8	8
Hardness Brinnel HB (information only)	minimal	95	90	90
<b>Physical properties</b>				
Density [kg/dm <sup>3</sup> ]		2,72	2,72	2,72
Module of elasticity [Gpa]		69	69	69
Electrical conductivity at 20 °C [m/Ω-mm <sup>2</sup> ]		39	39	39
Coefficient of thermal expansion [10 <sup>-6</sup> /K]		23,4	23,4	23,4
Thermal conductivity [w/m.K]		172	172	172
Melting point range °C		580 ÷ 650	580 ÷ 650	580 ÷ 650
<b>Processing Characteristics</b>				
Machinability		++++	++++	++++
Dimensional Stability		++++	++++	++++
Erodability		++++	++++	++++
Weldability		++++	++++	++++
Polishability		+++	+++	+++
Anodizing Decorative		++++	++++	++++
Anodizing Hard		+++++	+++++	+++++
Corrosion resistance (weather)		++++	++++	++++
Corrosion resistance (seawather)		+++	+++	+++

### Legend - Processing Characteristics

Excellent +++++      Good ++++      Accettable +++      Mediocre ++      Inadequate +      Not suitable -

### CHEMICAL COMPOSITION

DENOMINATION	Si	Fe	Mn	Mg	Cu	Zn	Cr	Ti	Ni	Pb	Bi	Sn	IMPURITY	ALUMINIUM
6026	0,60-1,40	0,70	0,20-1,00	0,60-1,20	0,20-0,50	≤0,30	≤0,30	≤0,20		≤0,40	0,50-1,50	≤0,05	0,05	0,15 remainder