

Aluminium Alloy 2011 (EN AW 2011 AlCu6BiPb)
 According to EU directives: 2000/53/CE (ELV) - 2011/65/CE (RoHS II)

- Aluminium-copper alloy.
- Ideal alloy for automatic lathe it doesn't wear the tools, high mechanical strength and excellent machinability.
- It can be decorative anodized.

	DIAMETER	
	≤ 75	75 ≤ 200
	T6	T6
Physical Properties		
Mechanical Properties		
Ultimate tensile strength Rm [N/mm ²]	minimal	minimal
Yield strength Rp 0,2	minimal	minimal
Elongation As	minimal	minimal
Hardness Brinell HB (information only)	minimal	minimal
Physical properties		
Density [kg/dm ³]	2,83	2,83
Module of elasticity [Gpa]	70	70
Electrical conductivity at 20 °C [m/Ω-mm ²]	37	37
Coefficient of thermal expansion [10 ⁻⁶ /K]	22,9	22,9
Thermal conductivity [w/m.K]	151	151
Melting point range °C	540 ÷ 645	540 ÷ 645
Processing Characteristics		
Machinability	+++++	+++++
Dimensional Stability	++++	++++
Erodability	++++	++++
Weldability	-	-
Polishability	+++	+++
Anodizing Decorative	+++	+++
Anodizing Hard	-	-
Corrosion resistance (weather)	+++	+++
Corrosion resistance (seawater)	-	-

Legend - Processing Characteristics

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

CHEMICAL COMPOSITION														
DENOMINATION	Si	Fe	Mn	Mg	Cu	Zn	Cr	Ti	Ni	Pb	Bi	Sn	IMPURITY	ALUMINIUM
2011	≤0,40	≤0,70			5,00-6,00	≤0,30				0,20-0,40	0,20-0,60		0,05	0,15 remainder