



Aluminium Alloy 2024 (EN AW 2024 AlCu4Mg1) According to EU directives: 2000/53/CE (ELV) - 2011/65/CE (RoHS II)

- Aluminium-copper alloy.
- This alloy is used in aeronautics with good machinability excellent to sustain effort and high temperature.

		DIAMETER	
		≤ 80	
		T3	
Physical Properties			
Mechanical Properties			
Ultimate tensile strenght Rm[N/mm ²]	minimal	425	
Yield strenght Rp 0,2	minimal	290	
Elongation As	minimal	9	
Hardness Brinell HB (information only)	minimal	120	
Physical properties			
Density [kg/dm ³]		2,79	
Module of elasticity [Gpa]		70	
Electrical conductivity at 20 °C [m/Ω-mm ²]		57	
Coefficient of thermal expansion [10 ⁻⁶ /K]		23,1	
Thermal conductivity [w/m.K]		120	
Melting point range °C		500 ÷ 640	
Processing Characteristics			
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
2024	≤0,50	≤0,50	0,30-0,90	1,20-1,80	3,80-4,90	≤0,25	≤0,10	≤0,15					0,05	0,15 remainder