

Aluminium Alloy 2017A (EN AW 2017A AlCu4MgSi)
According to EU directives: 2000/53/CE (ELV) - 2011/65/CE (RoHS II)

- Aluminium-copper alloy.
- This alloy is used in high mechanical characteristics applications.
- It is used for hot forging.

		DIAMETER	
		≤ 80	
		T3	
Physical Properties			
Mechanical Properties			
Ultimate tensile strength Rm[N/mm ²]	minimal	400	
Yield strength Rp 0,2	minimal	250	
Elongation A ₅	minimal	10	
Hardness Brinell HB (information only)	minimal	105	
Physical properties			
Density [kg/dm ³]		2,79	
Module of elasticity [Gpa]		75	
Electrical conductivity at 20 °C [m/Ω-mm ²]		51	
Coefficient of thermal expansion [10 ⁻⁶ /K]		23,6	
Thermal conductivity [w/m.K]		134	
Melting point range °C		510 ÷ 640	
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	Zr+Ti	Ni	Pb	Bi	Sn	IMPURITY	ALUMINIUM
2017A	0,20-0,80	≤0,70	0,40-1,00	0,40-1,00	3,50-4,50	≤0,25	≤0,10	≤0,25					0,05	0,15 remainder