

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.

		THICKNESS			
		≤ 75	75 ≤ 150	150 ≤ 200	200 ≤ 250
		T4	T4	T4	T4
Physical Properties					
Mechanical Properties					
Ultimate tensile strenght Rm[N/mm ²]	minimal	400	390	370	360
Yield strenght Rp 0,2	minimal	270	260	240	220
Elongation A _s	minimal	10	9	8	7
Hardness Brinell HB (information only)	minimal	105	105	105	105
Physical properties					
Density [kg/dm ³]		2,79	2,79	2,79	2,79
Module of elasticity [Gpa]		75	75	75	75
Electrical conductivity at 20 °C [m/Ω-mm ²]		51	51	51	51
Coefficient of thermal expansion [10 ⁻⁶ /K]		23,6	23,6	23,6	23,6
Thermal conductivity [w/m.K]		134	134	134	134
Melting point range °C		510 ÷ 640	510 ÷ 640	510 ÷ 640	510 ÷ 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
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