

## 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.
- Mechanical pieces, shoes moulds.

		THICKNESS						
		0,4≤1,5	1,5≤6	6≤12,5	12,5≤40	40≤100	100≤120	120≤150
<b>Physical state</b>		T4 - T451						
<b>Mechanical properties</b>								
Ultimate tensile strenght Rm[N/mm <sup>2</sup> ]	minimal	390	390	390	390	385	370	350
Yield strenght Rp 0,2	minimal	245	245	260	250	240	240	240
Elongation A <sub>s</sub>	minimal	14	15	13	12	10	8	4
Hardness Brinell HB (information only)	minimal	110	110	111	110	108	105	101
<b>Physical properties</b>								
Density [kg/dm <sup>3</sup> ]		2,79						
Module of elasticity [Gpa]		75						
Electrical conductivity at 20 °C [m/Ω-mm <sup>2</sup> ]		51						
Coefficient of thermal expansion [10 <sup>-6</sup> /K]		23,6						
Thermal conductivity [w/m.K]		134						
Melting point range °C		510 ÷ 640						
<b>Processing characteristics</b>								
Machinability		++++						
Dimensional stability		++++						
Erodability		++++						
Weldability		+						
Polishability		+++++						
Anodizing decorative		+++						
Anodizing hard		+						
Corrosion resistance (weather)		+++						
Corrosion resistance (seawater)		+						

### Legend - Processing Characteristics

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

### CHEMICAL COMPOSITION

DENOMINATION	Si	Fe	Mn	Mg	Cu	Zn	Cr	Zr+Ti	Ni	Pb	Bi	V	Others	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