

# ALUMINIUM ALLOY AA2028A (D61) CONFORMING TO RoHS II (2011/65/EU) AND ELV(2000/53/EC)



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Alloy AA2028A is developed specifically for electronics industry and it is renowned for good machining characteristics and mechanical properties. AA2028A is a direct replacement for 2030 and 2007, where lead content less than 0,4% and retains all the technological properties of the original alloys. Alloy AA2028A used for electronics and automotive industry.

## Chemical Composition AA2028A:

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Each	Total	Other	Additional
AA2028A	max. 0,80	max. 0,70	3,3 4,5	0,20 1,0	0,50 1,3	max 0,10	max. 0,50	max. 0,20	0,20 0,4	max. 0,05	max. 0,15	Bi=0,5-0,7 Ni max.0,10	

## Mechanical Properties AA2028A:

Cold Drawn									
Temper	Dimension		Rm min.		Rp <sub>0.2</sub> min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
T3, T351	7 to 30	0.275 to 1.181	370	54	240	35	7	7	100
T3, T351	30 to 76,20	1.181 to 3	340	50	220	32	6	6	90
Extruded									
Temper	Dimension		Rm min.		Rp <sub>0.2</sub> min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
T4, T4510, T4511	20 to 80	0.788 to 3.149	370	54	250	36	8	8	100
T4, T4510, T4511	80 to 180	3.149 to 7.087	340	50	220	32	8	8	90

## Comparative Characteristics AA2028A:

Temper	Corrosion resistance		Cold workability	Anodizing Response	Brazeability	Weldability	
	General	Stress				Gas	Arc
T3	D	C	B	B	D	D	B
T351	D	B	B	B	D	D	C
T4, T4510, T4511	D	C	B	B	D	D	B

Rating: A=Excellent, B=Good, C=Fair, D=Poor

## Physical Properties AA2028A:

Density (g/cm <sup>3</sup> )	2,81
Modulus of elasticity (MPa)	74330
Thermal conductivity (W/m K)	130-160
Coefficient of thermal expansion (20-100°) 10 <sup>-6</sup> /K	23,0
Electrical resistivity (MS/m)	18-22 (31%-40% IACS)