



## Conforming to RoHS II (2011/65/EU) and ELV (2000/53/EC)

Alloy AA 2028 A is developed specifically for electronics industry and it is renowned for good machining characteristics and mechanical properties. AA 2028 A is a direct replacement for 2030 and 2007, where lead content is less than 0.4 % and retains all the technological properties of the original alloys. Alloy AA 2028 A is used for electronics and automotive industry.



### Chemical Composition AA 2028 A

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Each	Total	Other	Additional
AA 2028 A	max. 0.80	max. 0.70	3.30 4.50	0.20 1.00	0.50 1.30	max. 0.10	max. 0.50	max. 0.20	0.20 0.40	max. 0.05	max. 0.15	Bi=0.5-0.7 Ni=max. 0.1	

### 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.		
<b>T3, T351</b>	7 to 30	0.275 to 1.181	370	54	240	35	7	7	100
<b>T3, T351</b>	30 to 76.20	1.181 to 3	340	50	220	32	6	6	90

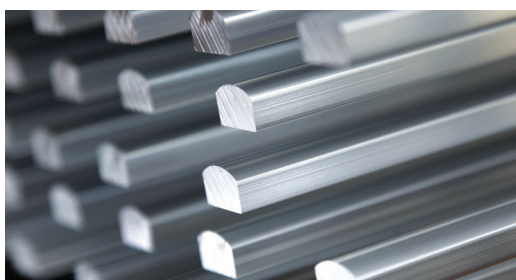
#### Extruded

Temper	Dimension		Rm min.		Rp <sub>0.2</sub> min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
<b>T4, T4510, T4511</b>	20 to 80	0.788 to 3.149	370	54	250	36	8	8	100
<b>T4, T4510, T4511</b>	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
<b>T3</b>	●	●●	●●●	●●●	●	●	●●●
<b>T351</b>	●	●●●	●●●	●●●	●	●	●●
<b>T4, T4510, T4511</b>	●	●●	●●●	●●●	●	●	●●●

Rating: ●●●● - Excellent | ●●● - Good | ●● - Fair | ● - 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 (25-100°) 10 <sup>-6</sup> /K	23.0
Electrical conductivity at 20°C (MS/m)	18-22 (31%-40% IACS)