

ALUMINIUM ALLOY AA6064 (AC45) CONFORMING TO RoHS II (2011/65/EU) AND ELV(2000/53/EC)



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Alloy AA6064 is developed specifically for electronics industry and renowned for good machining characteristics and excellent anodizing response. AA6064 is a direct replacement for 6262, where lead content less than 0,4% and retains all the technological properties of the original alloy 6262. Alloy 6064 used for electronics and automotive industry.

AA 6064= EN AW 6262R (Old designation)

Chemical Composition AA6064:

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Each	Total	Other	Additional
AA 6064	0,4 0,8	max. 0,70	0,15 0,40	max 0,15	0,80 1,2	0,05 0,14	max. 0,25	max. 0,15	0,20 0,40	max. 0,05	max. 0,15	Bi=0,5-0,7	

Mechanical Properties AA6064:

Cold Drawn									
Temper	Dimension		Rm min.		Rp _{0.2} min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
T8	5 to 76.2	0.197 to 3	345	50	315	46	4	5	80
T9	5 to 76.2	0.197 to 3	360	52	330	48	4	5	90
Extruded									
Temper	Dimension		Rm min.		Rp _{0.2} min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
T6	20 to 180	0.788 to 7.087	260	38	240	35	10	10	80

Comparative Characteristics AA6064:

Temper	Corrosion resistance		Cold workability	Anodizing Response	Brazeability	Weldability	
	General	Stress				Gas	Arc
T6, T8, T9	B	A	B	A	B	B	B
T6	B	A	B	A	B	B	B

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

Physical Properties AA6064:

Density (g/cm ³)	2,73
Modulus of elasticity (MPa)	69100
Thermal conductivity (W/m K)	172
Coefficient of thermal expansion (20-100°) 10 ⁻⁶ /K	23,4
Electrical resistivity (MS/m)	26 (45% IASC)