Aluminium Alloy AA 6262 (AC41) Conforming to ELV(2000/53/EC)

Aluminium Industry
Impol d.d.
Partizanska 38
2310 Slovenska Bistrica
Slovenia
Tel.: +386 (0)2 8453 100, 8453 274
Fax: +386 (0)2 8181 219, 8453 183
info@impol.si
www.impol.si

Alloy AA6262 is developed specifically for machining applications, conform to ELV and renowned for good machining characteristics and excellent anodizing response. Lead content less then 1% and no other prohibited elements is used for automotive brake components, hydraulic valve blocks and many other applications.

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Each	Total	Other	Additional
AA6262	0,4 0,8	max. 0,70	0,15 0,40	max 0,15	0,80 1,2	0,04 0,14	max. 0,25	max. 0,15	0,40 0,70	max. 0,05	max. 0,15	Bi=0,4-0,7	

Mechanical Properties AA6262:

Cold Drawn									
Temper	Dimension		Rm min.		$Rp_{0.2}$ min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min		
T6	5 to 76.2	0.197 to 3	290	42	240	35	10	10	85
T9	5 to 76.2	0.197 to 3	360	52	330	48	4	5	85
Extruded									
Temper	Dimension		Rm min.		$Rp_{0.2}$ min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min		
T6 T6510, T6511	20 to 180	0.788 to 7.087	260	38	240	35	10	10	75

Comparative Characteristics AA6262:

Temper	Corrosion resistance		Cold workability	Anodizing Response	Brazeability	Weldability	
	General	Stress				Gas	Arc
T6, T9	B	A	B	A	B	B	B
T6, T6510, T6511	B	A	B	A	B	B	B

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

Physical Properties AA6262:

Density (g/cm^3)	2,73
Modulus of elasticity (MPa)	68930
Thermal conductivity (W/m K)	172
Coefficient of thermal expansion (20-100°) 10^{-6} /K	23,4
Electrical resistivity (MS/m)	26 (45% IASC)