Aluminium Alloy AA 6026 Modified (AC49) Conforming to ELV(2000/53/EC) and RoHs III (2018/740/EU)

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Alloy 6026 Modified is developed specifically for machining applications, conform to ELV and RoHs and renowned for good machining characteristics and excellent anodizing response. Alloy 6026 modified does **not contain Sn and Pb.** AA 6026 Modified alloy is a direct replacement for 6026, 6012 and 6262 -classic, retains all the technological properties of the original 6026, 6012 and 6262.

Chemical Composition AA 6026 Modified conforming to ELV and RoHs:

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Sn	Each	Total
AA 6026 Modified	0,6 1,4	max. 0,70	0,20 0,50	0,20 1,0	0,6 1,2	max 0,30	max. 0,30	max. 0,20	max 0,05	0,50- 1,50	max 0,05	max. 0,05	max. 0,15

Mechanical Properties AA 6026 Modified conforming to ELV and RoHs:

Cold Drawn									
Temper	Dimension		Rm min.		$Rp_{0.2}$ min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
T6	5,55 to 76.2	0.218 to 3	370	54	300	44	8	5	95
T8	5.55 to 76.2	0.218 to 3	345	50	315	46	4	5	95
T9	5.55 to 76.2	0.218 to 3	360	52	330	48	4	5	95

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 140	0.788 to 5.511	370	54	300	44	8	8	95
	140,01 to 180	5.512 to 7.086	340	49	250	36	8	8	90

Comparative Characteristics AA 6026 Modified conforming to ELV and RoHs:

Temper	Corrosion resistance		Cold workability	Anodizing Response	Brazeability	Weldability	
	General	Stress				Gas	Arc
T6, T8, 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 AA 6026 Modified conforming to ELV and RoHs:

Density (g/cm^3)	2,73
Modulus of elasticity (MPa)	69640
Thermal conductivity (W/m K)	172
Coefficient of thermal expansion (20-100°) 10^{-6} /K	23,4
Electrical resistivity (MS/m)	26 (45% IASC)