

Aluminium Alloy AA 2030 Modified (D62) Conforming to ELV(2000/53/EC) and RoHs III (2018/740/EU)



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 AA2030 Modified conforming to RoHS III is developed specifically for machining applications. It is renowned for its excellent machining characteristics and short chips. Alloy 2030 modified does **not contain Sn and Pb**. Modified alloy is a direct replacement for 2030/2007 alloy and retains all the high quality properties and is a technical equivalent to the original 2030/2007 alloy.

Chemical Composition AA2030 Modified:

Alloy	Si	Fe	Cu	Mn	Mg	Zn	Ti	Pb	Bi	Sn	Each	Total
AA 2030 Modified	Max. 0,80	max. 0,80	3,3 4,6	0,20 1,00	0,40 1,80	max. 0,80	max. 0,20	max 0,05	0,20- 1,50	max 0,05	max. 0,05	max. 0,15

Mechanical properties AA2030 Modified:

Temper	Dimension		Rm min.		Rp0.2 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.		Rp0.2 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 AA2030 Modified:

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 AA2030 Modified:

Density (g/cm ³)	2,82
Modulus of elasticity (MPa)	73640
Thermal conductivity (W/m K)	130-160
Coefficient of thermal expansion (20-100°) 10 ⁻⁶ /K	23,0
Electrical resistivity (MS/m)	18-22 (31%-40% IACS)