



Conforming to ELV (2000/53/EC) and RoHS III (2018/740/EU)

Alloy 2030 LF conforming to RoHS III is developed specifically for machining applications. It is renowned for its excellent machining characteristics and short chips. **Alloy 2030 LF 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 2030 LF

Alloy	Si	Fe	Cu	Mn	Mg	Zn	Ti	Pb*	Bi	Sn*	Each	Total
2030 LF	max. 0.80	max. 0.80	3.30 4.60	0.20 1.00	0.40 1.80	max. 0.80	max. 0.20	max. 0.05	0.20- 1.00	max. 0.05	max. 0.05	max. 0.15

*No intentional Pb and Sn additions. Maximum 0.05%.

Mechanical properties 2030 LF

Cold Drawn

Temper	Dimension		Rm min.		Rp _{0.2} 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
T8	7 to 76.2	0.275 to 3	370	54	240	35	5	5	115

Extruded

Temper	Dimension		Rm min.		Rp _{0.2} 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 2030 LF

Temper	Corrosion resistance		Cold workability	Anodizing Response	Brazability	Weldability	
	General	Stress				Gas	Arc
T3	●	●●	●●●	●●●	●	●	●●●
T351, T8	●	●●●	●●●	●●●	●	●	●●
T4, T4510, T4511	●	●●	●●●	●●●	●	●	●●●

Rating: ●●●● - Excellent | ●●● - Good | ●● - Fair | ● - Poor



Physical Properties 2030 LF

Density (g/cm ³)	2.81
Modulus of elasticity (MPa)	74360
Thermal conductivity (W/m K)	200
Coefficient of thermal expansion (25-100°) 10 ⁻⁶ /K	23.4-24.9
Electrical conductivity at 20°C (MS/m)	18-22 (31%-40% IACS)