Aluminium alloy AA 2030 LF

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

Alloy AA 2030 LG 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 AA 2030 LF

Alloy	Si	Fe	Cu	Mn	Mg	Zn	Ti	Pb	Bi	Sn	Each	Total
AA 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- 1.50	max. 0.05	max. 0.05	max. 0.15

Mechanical properties AA 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

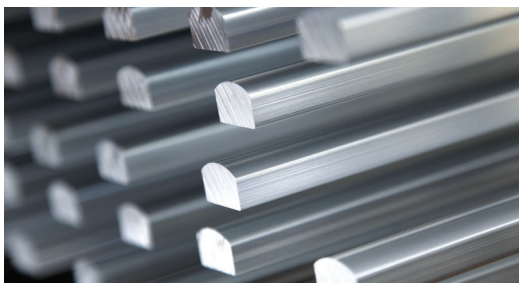
Extruded

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 AA 2030 LF

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

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



Physical Properties AA 2030 LF

Density (g/cm³)	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)

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