



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

Alloy AA 2033 LF conforming to RoHS III is developed specifically for machining applications. It is renowned for its excellent machining characteristics and short chips. **Alloy 2033 LF does not contain Sn and Pb.** Modified alloy is a replacement for 2030/2007 or 2011 alloy and retains all the high quality properties and is a technical equivalent to the original 2030/2007 or 2011 alloy.



Chemical Composition AA 2033 LF

Alloy	Si	Fe	Cu	Mn	Mg	Zn	Ti	Pb	Bi	Sn	Each	Total
AA 2033 LF	0.10 1.20	max. 0.70	2.20 2.70	0.40 1.00	0.20 0.60	max. 0.50	max. 0.15	max. 0.05	0.05- 0.90	max. 0.05	max. 0.05	max. 0.15

Mechanical properties AA 2033 LF

Cold Drawn

Temper	Dimension		Rm min.		Rp _{0.2} min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
T3	5.55 to 30	0.218 to 1.181	370	54	240	35	8	8	100
T3	30 to 76.20	1.181 to 3	340	50	220	32	8	8	100
T8	5.55 to 76.20	0.218 to 3	370	54	270	39.2	8	8	105

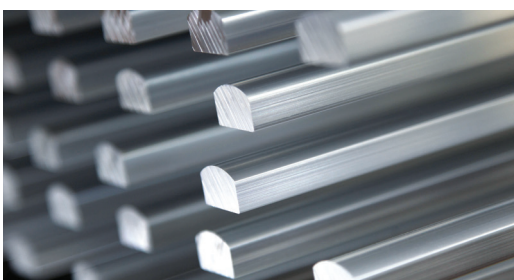
Extruded

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	220	32	8	8	90
T4, T4510, T4511	80 to 180	3.149 to 7.087	340	50	220	32	8	8	90
T6, T6510, T6511	20 to 80	0.788 to 3.149	370	54	250	36	8	8	105
T6, T6510, T6511	80 to 180	3.149 to 7.087	340	50	220	32	8	8	105

Comparative Characteristics AA 2033 LF

Temper	Corrosion resistance		Cold workability	Anodizing Response	Brazeability	Weldability	
	General	Stress				Gas	Arc
T3, T4, T4510, T4511,	●	●●	●●●	●●●	●	●	●●●
T8, T6, T6510, T6511	●	●●●	●●●	●●●	●	●	●●

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



Physical Properties AA 2033 LF

Density (g/cm ³)	2.79
Modulus of elasticity (MPa)	73100
Thermal conductivity (W/m K)	208
Coefficient of thermal expansion (25-100°) 10 ⁻⁶ /K	22.4-23.1
Electrical conductivity at 20°C (MS/m)	18-23 (31%-40% IACS)