



PRODUCTION PROGRAM

Unit: in	●	■	■	●
Drawn	0.236 - 3	0.394 - 2.559	Thick. 0.472 - 2.165	0.394 - 2.5
Extruded	1.181 - 10	2 - 6.5	Thick. 1.181 - 5	-

According to EU directives:
2000/53/EU (ELV) – 2011/65/EU (RoHS II)



PRESENTATION

This is an ecologic alloy, it does not have lead, it has good machinability and high mechanical characteristics. Moreover, it has a good resistance to corrosion and suitability to hard, protective and decorative anodizing. It is an alternative to 6012, 6262, 6020, 6023 alloys.

Main applications: machining on high-speed automatic lathes, particulars for automotive applications, automatic transmission shafts, valves and clutches, hydraulic parts.

NOTE: it is particularly suitable for the realization of parts not subject to extreme heat solicitations (max 284°F) and therefore it is appropriate for automotive parts as automatic transmission valves. For higher temperatures, we suggest to use other Eural alloys, as 6026LF, 6026 or 6064A.

Samples of finished products made of Eural bars



Properties	T6	T8/T9
Machinability	Excellent	Good
Protective anodizing	Good	Good
Decorative anodizing	Good	Good
Hard anodizing	Good	Good
Resistance to atmospheric corrosion	Good	Good
Resistance to marine corrosion	Good	Good
MIG-TIG weldability	Good	Good
At resistance weldability	Good	Good
Brazing weldability	Good	Good
Plastic formability when cold	Good	Good
Plastic formability when hot	Good	Good

Legend



Chemical composition	
Si	0.40 - 0.80
Fe	≤ 0.70
Cu	0.15 - 0.40
Mn	≤ 0.15
Mg	0.80 - 1.20
Cr	0.04 - 0.14
Ni	
Zn	≤ 0.25
Ti	≤ 0.10
Bi	0.40 - 0.90
Sn	0.40 - 1.00
Others	Each 0.05 Total 0.15
Al	Remainder

Physical properties	
Density	0.0983
Modulus of elasticity	10,008
Coefficient of thermal expansion	13.0
Thermal conductivity at 68°F	98.8
Typical electrical resistivity at 68°F	0.039

Minimum mechanical properties				
Temper	Diam. in	UTS		HBW
		ksi	ksi	A% Typical
T6	≤ 3	42.1	34.8	10 -
T8	≤ 2	50.0	45.7	4 -
T9	≤ 2	52.2	47.9	4 -
T6	≤ 8	37.7	34.8	10 -