



PRODUCTION PROGRAM

Unit: mm	●	■	■	●
Drawn	6 ÷ 76,2	10 ÷ 65	Thick. 12 ÷ 55	10 ÷ 63,5
Extruded	30 ÷ 254	50 ÷ 165	Thick. 30 ÷ 127	–

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 140°C) and therefore it is appropriate for automotive parts as automatic transmission shafts. For higher temperatures, we suggest to use other Eural alloys, as 6026 or 6064A.

Samples of finished products made of Eural bars

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

Legend

Excellent	Good	Acceptable	Not recommended
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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	Kg dm ³	2,72
Modulus of elasticity	MPa	69.000
Coefficient of thermal expansion	x10 ⁻⁶ °C	23,4
Thermal conductivity at 20°C	W mk	172
Typical electrical resistivity at 20°C	Ω mm ² m	0,038

Mechanical properties					
Temper	Diam. mm	Rm MPa	Rp0,2 MPa	HBW A%	Typical
Drawn	T6	≤ 80	290	240	10 -
	T8	≤ 50	345	315	4 -
	T9	≤ 50	360	330	4 -
Extruded	T6	≤ 220	260	240	10 75