

Colour code
EU yellow



Colour code
USA orange



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 alloy has good machinability and high mechanical properties. Moreover it has good resistance to corrosion and suitability to hard, protective and decorative anodizing. After recent restrictions on lead (RoHS and REACH / Pb ≤ 0,1%), EURAL suggests as alternative 6026 LEAD FREE.

Main applications: particulars for braking systems for automotive, structural components for civil constructions, railroad and heavy street vehicles.

Properties	T6	T8/T9
Machinability	Good	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

Excellent	Good	Acceptable	Not recommended
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Samples of finished products made of Eural bars



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	≤ 0,15
Pb	0,20 ÷ 0,40
Bi	0,40 ÷ 0,80
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 0,039

Minimum mechanical properties					
Temper	Diam. mm	Rm	Rp0,2	HBW	
		MPa	MPa	A%	Typical
Drawn	T6	≤ 80	310 260	8	95
	T8	≤ 80	345 315	4	95
	T9	≤ 80	360 330	4	95
Extruded	T6, T6510, T6511	≤ 140	310 260	8	95
	T6, T6510, T6511	140 < D ≤ 250	260 240	8	90