



PRODUCTION PROGRAM

According to EU directives:
2000/53/EU (ELV) - 2018/740/EU (RoHS II)

Unit: mm	●	■	■	◆
Drawn	14 ÷ 76,2	20 ÷ 65	Spess. 12 ÷ 55	20 ÷ 63,5
Extruded	30 ÷ 254	50 ÷ 165	Spess. 30 ÷ 127	-



PRESENTATION

This alloy has high mechanical properties, excellent resistance to fatigue, good attitude to forging and a fair machinability.

Main applications: high structural resistance components for aircraft and defense.

Properties	T3/T4/T6
Machinability	■
Protective anodizing	■
Decorative anodizing	■
Hard anodizing	■
Resistance to atmospheric corrosion	■
Resistance to marine corrosion	■
MIG-TIG weldability	■
At resistance weldability	■
Brazing weldability	■
Plastic formability when cold	■
Plastic formability when hot	■

Legend



Samples of finished products made of Eural bars



Chemical composition	
Si	0,50 ÷ 1,20
Fe	≤ 0,70
Cu	3,90 ÷ 5,00
Mn	0,40 ÷ 1,20
Mg	0,20 ÷ 0,80
Cr	≤ 0,10
Ni	
Zn	≤ 0,25
Ti	≤ 0,15
Pb	
Others	Each 0,05 Total 0,15
Al	Remainder

Physical properties	
Density	Kg / dm ³ 2,80
Modulus of elasticity	MPa 72.400
Coefficient of thermal expansion	x10 ⁻⁶ / °C 23
Thermal conductivity at 20°C	W / mk T4: 134 T6: 155
Typical electrical resistivity at 20°C	Ω mm ² / m T4: 0,051 T6: 0,043

Minimum mechanical properties					
Temper	Diam. mm	Rm	Rp0,2	HBW	
		MPa	MPa	A%	Typical
Drawn	T3	≤ 80	380 290	8	110
	T351	≤ 80	380 290	6	110
	T4	≤ 80	380 220	12	110
	T451	≤ 80	380 220	10	110
	T6	≤ 80	450 380	8	140
Extruded	T651	≤ 80	450 380	6	140
	T4, T4510, T4511	≤ 75	410 270	12	110
	T4, T4510, T4511	75 < D ≤ 150	390 250	10	110
	T4, T4510, T4511	150 < D ≤ 200	350 230	8	110
	T6, T6510, T6511	≤ 75	460 415	7	140
	T6, T6510, T6511	75 < D ≤ 150	465 420	7	140
	T6, T6510, T6511	150 < D ≤ 200	430 350	6	140
T6, T6510, T6511	200 < D ≤ 250	420 320	5	140	