



Colour code
EU green

PRODUCTION PROGRAM

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

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



PRESENTATION

This alloy has high mechanical properties and excellent resistance to fatigue. During machining, it creates quite long chips, therefore it is not well suited for automatic lathes.

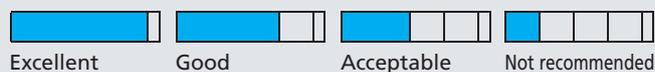
It can be replaced by 2030, which has the same mechanical properties but has better machinability, allowing higher productivity.

Main applications: screws and bolts, high structural resistance components for aviation and defense.

Samples of finished products made of Eural bars

Properties	T3/T4
Machinability	Excellent
Protective anodizing	Good
Decorative anodizing	Acceptable
Hard anodizing	Not recommended
Resistance to atmospheric corrosion	Good
Resistance to marine corrosion	Acceptable
MIG-TIG weldability	Good
At resistance weldability	Excellent
Brazing weldability	Acceptable
Plastic formability when cold	Not recommended
Plastic formability when hot	Acceptable

Legend



Chemical composition	
Si	0,20 ÷ 0,80
Fe	≤ 0,70
Cu	3,50 ÷ 4,50
Mn	0,40 ÷ 1,00
Mg	0,40 ÷ 1,00
Cr	≤ 0,10
Ni	
Zn	≤ 0,25
Zr+Ti	≤ 0,25
Pb	
Bi	
Others	Each 0,05 Total 0,15
Al	Remainder

Physical properties	
Density	$\frac{\text{Kg}}{\text{dm}^3}$ 2,79
Modulus of elasticity	MPa 75.000
Coefficient of thermal expansion	$\frac{\times 10^{-6}}{^{\circ}\text{C}}$ 23,6
Thermal conductivity at 20°C	$\frac{\text{W}}{\text{mk}}$ 134
Typical electrical resistivity at 20°C	$\frac{\Omega \text{ mm}^2}{\text{m}}$ 0,051

Mechanical properties					
	Temper	Diam. mm	Rm MPa	Rp0,2 MPa	HBW A%
Drawn	T3	≤ 80	400	250	10 105
	T351	≤ 80	400	250	8 105
Extruded	T4, T4510, T4511	≤ 75	400	270	10 105
	T4, T4510, T4511	75 < D ≤ 150	390	260	9 105
	T4, T4510, T4511	150 < D ≤ 200	370	240	8 105
	T4, T4510, T4511	200 < D ≤ 250	360	220	7 105