



Colour code
EU green

PRODUCTION PROGRAM

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

According to EU directives:

2000/53/EU (ELV) - 2018/740/EU (RoHS II)



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 2033 or 2007, which have the same mechanical properties but have better machinability, allowing higher productivity.

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

Properties	T3/T4
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

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



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

Minimum mechanical properties					
Temper	Diam. mm	Rm	Rp0,2	HBW	
		MPa	MPa	A%	Typical
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