



PRODUCTION PROGRAM

Unit: in	●	■	■	■
Drawn	0.787 - 2.756	—	—	—
Extruded	1.181 - 10	1.969 - 6.5	Thick. 1.181 - 5	—

According to EU directives:

2000/53/EC (ELV) – 2011/65/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.

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

Samples of finished products made of Eural bars

Properties	T3
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



Chemical composition	
Si	≤ 0.50
Fe	≤ 0.50
Cu	3.80 - 4.90
Mn	0.30 - 0.90
Mg	1.20 - 1.80
Cr	≤ 0.10
Ni	
Zn	≤ 0.25
Ti	≤ 0.15
Zr	
Pb	
Bi	
Al	Remainder

Physical properties		
Density	$\frac{\text{lb}}{\text{in}^3}$	0.1008
Modulus of elasticity	ksi	10,153
Coefficient of thermal expansion	$\frac{\times 10^{-6}}{^{\circ}\text{F}}$	12.8
Thermal conductivity at 68 °F	$\frac{\text{Btu}}{\text{ft h } ^{\circ}\text{F}}$	68.9
Electrical resistivity at 68 °F	$\frac{\Omega \text{ mm}^2}{\text{m}}$	0.057

Mechanical properties					
	Temper	UTS ksi	YTS ksi	A%	HBW
Extruded	T3	63.8	43.5	8	120
	T3 *	68.9	50.8	11	125
Drawn	T3	61.6	42.1	9	120
	T3 *	76.9	65.3	9	150

* Typical Eural properties