

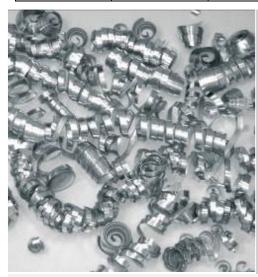
2024 by EURAL

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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)

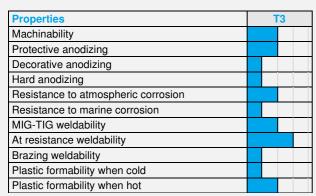


PRESENTATION

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







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	lb in³	0.1008			
Modulus of elasticity	ksi	10,153			
Coefficient of thermal expansion	x10 ⁻⁶ °F	12.8			
Thermal conductivity at 68°F	Btu ft h ℉	68.9			
Electrical resistivity at 68°F	$\frac{\Omega \text{ mm}^2}{\text{m}}$	0.057			

		Me	chanica	l proper	ties	
lb in³	0.1008	Temper	UTS ksi	YTS ksi	A%	HBW

Mechanical properties					
	Temper	UTS ksi	YTS ksi	A%	HBW
pəpr	T3	63.8	43.5	8	120
Extruded	T3 *	68.9	50.8	11	125
Drawn	Т3	61.6	42.1	9	120
	T3 *	76.9	65.3	9	150
* Tunical Fund properties					

^{*} Typical Eural properties