

2011 by EURAL

Color code brown



PRODUCTION PROGRAM

Unit: in				•	
Drawn	0.197 - 3	0.394 - 2.559	Thick. 0.472 - 2.165	0.394 - 2.5	
Extruded	1.181 - 10	1.181 - 6.5	Thick. 1.181 - 5	-	

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



PRESENTATION

This alloy is the most often selected for high speed automatic lathes.

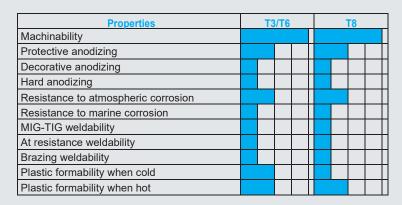
It offers the following advantages:

- · easy machining with any equipment;
- · cutting stress lower than most of other alloys;
- longer life of cutting tools;
- · cutting area always clean due to very thin chip;
- high mechanical properties;
- possibility to anodize finished parts in several colors *.

Main applications: screws, bolts, nuts, threaded bars.

* To get an optimal surface finishing of anodized pieces, we suggest to use suitable lubricants during machining.

Samples of finished products made of Eural bars







Chemical composition				
Si	≤ 0.40			
Fe	≤ 0.70			
Cu	5.00 - 6.00			
Mn				
Mg				
Cr				
Ni				
Zn	≤ 0.30			
Ti				
Pb	0.20 - 0.40			
Bi	0.20 - 0.60			
Others	Each 0.05 Total 0.15			
Al	Remainder			

Dhysical properties					
Physical properties					
Donaity	lb	0.1022			
Density	in ³				
Modulus of elasticity	ksi	10.152			
0 - 65 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	x10 ⁻⁶	12.7			
Coeffi cient of thermal expansion	°F				
The arrest and the first and COOF	Btu	T3: 86.7			
Thermal conductivity at 68°F	ft h °F	T8: 98.2			
Transiant also desired manifests sites at COSF	Ω mm 2	T3: 0.038			
Typical electrical resistivity at 68°F	m	T8: 0.043			

www.eural.com

	Minimum mechanical properties						
			UTS	YTS		HBW	
	Temper	Diam. in	ksi	ksi	A%	Typical	
Drawn	Т3	≤ 1.5	46.4	39.2	10	90	
	Т3	1.5 < D ≤ 2	43.5	36.3	10	90	
	Т3	2 < D ≤ 3	40.6	30.5	10	90	
	Т8	≤ 3	53.7	39.2	8	115	
Extruded	T6	≤3	45.0	33.4	8	110	
	T6	3 < D ≤ 8	42.8	28.3	6	110	