

2017A by EURAL

Meets the requirements of alloy 2017



Color code green



PRODUCTION PROGRAM

According to EU directives:

2000/53/EU (ELV) – 2011/65/EU (RoHS II)

Unit: in	●	■	■	◆
Drawn	0.551 - 3	0.787 - 2.559	Thick. 0.472 - 2.165	0.787 - 2.5
Extruded	1.181 - 10	1.181 - 6.5	Thick. 1.181 - 5	-



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	■
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	0.20 - 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	lb / in ³ 0.1008
Modulus of elasticity	ksi 10,878
Coefficient of thermal expansion	x10 ⁻⁶ / °F 13.1
Thermal conductivity at 68°F	Btu / ft h °F 77.0
Typical electrical resistivity at 68°F	Ω mm ² / m 0.051

Minimum mechanical properties					
	Temper	Diam. in	UTS		HBW
			ksi	ksi	A% Typical
Drawn	T3	≤ 3	58.0	36.3	10 105
	T351	≤ 3	58.0	36.3	8 105
Extruded	T4, T4510, T4511	≤ 3	58.0	39.2	10 105
	T4, T4510, T4511	3 < D ≤ 6	56.6	37.7	9 105
	T4, T4510, T4511	6 < D ≤ 8	53.7	34.8	8 105
	T4, T4510, T4511	8 < D ≤ 10	52.2	31.9	7 105

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