2017A by EURAL

Color code
green

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

EURAL GNUTTI S.p.A.

PRODUCTION PROGRAM

Unit: in	●	■	▬	⬢
Drawn	0.551 - 2.756	0.787 - 2.559	Thick. 0.472 - 2.165	0.787 - 2.362
Extruded	1.181 - 10	1.969 - 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

Excellent | Good | Acceptable | Not recommended

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
Ti	
Zr	
Pb	
Bi	
Al	Remainder

Physical properties		
Density	$\frac{lb}{in^3}$	0.1008
Modulus of elasticity	ksi	10,878
Coefficient of thermal expansion	$\frac{x10^{-6}}{°F}$	13.1
Thermal conductivity at 68°F	$\frac{Btu}{ft\ h\ °F}$	77.0
Electrical resistivity at 68°F	$\frac{\Omega\ mm^2}{m}$	0.051

Mechanical properties	Temper	UTS ksi	YTS ksi	A%	HBW
Extruded	T4	56.6	37.7	9	105
	T4 *	60.9	45.0	11	110
Drawn	T3	58.0	36.3	10	105
	T3 *	71.1	60.9	11	135

** Typical Eural properties*