2017A

Colour code
EU green

According to EU directives:
2000/53/CE (ELV) - 2002/95/CE (RoHS)

EURAL GNUTTI S.p.A.

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: high structural resistance components for aviation, defence, high resistance components, screws and bolts.

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	3,5 ÷ 4,5
Mn	0,40 ÷ 1,00
Mg	0,40 ÷ 1,00
Cr	≤0,10
Ni	
Zn	≤0,25
Ti	
Zr	
Pb	
Bi	
Al	Rem.

Physical characteristics		
Density	$\frac{Kg}{dm^3}$	2,79
Modulus of elasticity	MPa	75.000
Coefficient of thermal expansion	$\frac{x10^{-6}}{°C}$	23,6
Thermal conductivity at 20°C	$\frac{W}{mk}$	134
Electrical resistivity at 20°C	$\frac{\Omega\ mm^2}{m}$	0,051

Mechanical properties					
	Temper	Rm MPa	Rp 0,2 MPa	A%	HBW
Extruded	T4	390	260	9	105
	T4*	410	260	11	115
Drawn	T3	400	250	10	105
	T3*	470	390	11	135

** Typical Eural Characteristics*