2024

Color code red

EURAL GNUTTI S.p.A.

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

PRESENTATION

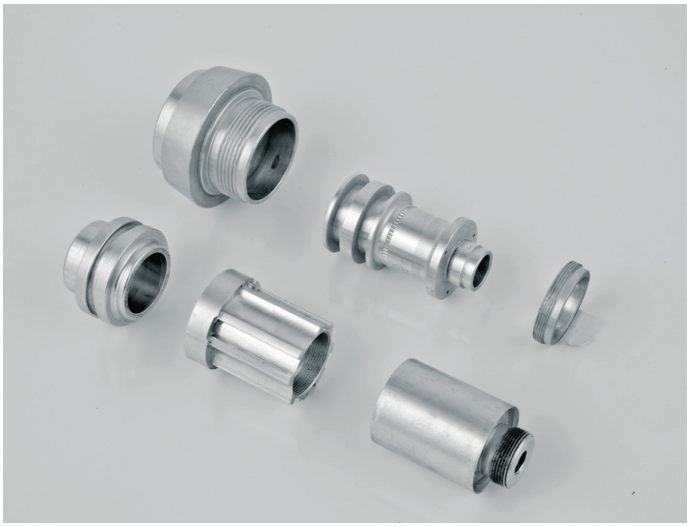
This alloy has high mechanical properties and excellent resistance to fatigue. During machining, it creates quite long chips, therefore it is not well suited for automatic lathes. It can be replaced by 2030 which has the same mechanical properties but has better machinability, allowing higher productivity.

Main applications: high structural resistance components for aviation, defense, high resistance components, screws and bolts.

Properties	T3
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	≤ 0.50
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	Rem.

Physical characteristics		
Density	$\frac{lb}{in^3}$	0.1008
Modulus of elasticity	ksi	10,153
Coefficient of thermal expansion	$\frac{x10^{-6}}{°F}$	12.8
Thermal conductivity at 68°F	$\frac{Btu}{ft\ h\ °F}$	68.9
Electrical resistivity at 68°F	$\frac{\Omega\ mm^2}{m}$	0.057

Mechanical characteristics					
	Temper	UTS ksi	YTS ksi	A%	HBW
Extruded	T3	63.8	43.5	8	120
	T3 *	71.1	55.1	8	130
Drawn	T3	61.6	42.1	9	120
	T3 *	75.4	60.9	9	140

** Typical Eural Characteristics*