

EURAL

GNUTTI S.p.A.

6064A

Colour code
EU yellow



Colour code
USA orange



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



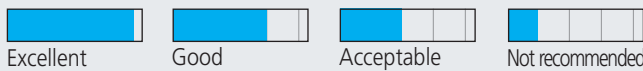
PRESENTATION

This alloy has good machinability and high mechanical properties. Moreover it has a good resistance to corrosion and suitability to hard, protective and decorative anodizing.

Main applications: particulars for braking systems for automotive, structural components for civil constructions, railroad and street heavy vehicles.

Properties	T6	T8/T9
Machinability	Excellent	Good
Protective anodizing	Excellent	Good
Decorative anodizing	Excellent	Good
Hard anodizing	Excellent	Good
Resistance to atmospheric corrosion	Good	Good
Resistance to marine corrosion	Good	Good
MIG-TIG weldability	Good	Good
At resistance weldability	Good	Good
Brazing weldability	Good	Good
Plastic formability when cold	Good	Good
Plastic formability when hot	Good	Good

Legend



Chemical composition	
Si	0,40 ÷ 0,80
Fe	≤0,70
Cu	0,15 ÷ 0,40
Mn	≤0,15
Mg	0,80 ÷ 1,20
Cr	0,04 ÷ 0,14
Ni	
Zn	≤0,25
Ti	≤0,15
Zr	
Pb	0,20 ÷ 0,40
Bi	0,40 ÷ 0,80
Al	Rem.

Physical characteristics	
Density	$\frac{\text{Kg}}{\text{dm}^3}$ 2,72
Modulus of elasticity	MPa 69.000
Coefficient of thermal expansion	$\frac{\times 10^{-6}}{^{\circ}\text{C}}$ 23,4
Thermal conductivity at 20°C	$\frac{\text{W}}{\text{mk}}$ 172
Electrical resistivity at 20°C	$\frac{\Omega \text{ mm}^2}{\text{m}}$ 0,039

Mechanical properties					
	Temper	Rm MPa	Rp 0,2 MPa	A%	HBW
Extruded	T6	260	240	10	90
	T6*	350	320	10	110
Drawn	T6	290	240	10	90
	T6*	350	295	12	95
	T8	345	315	4	95
	T8*	375	355	10	105
	T9	360	330	4	95
	T9*	385	370	7	110

* Typical Eural Characteristics