

# 6026

Colour code  
EU orange

# EURAL

## GNUTTI S.p.A.

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



### PRESENTATION

This innovative alloy has been conceived and developed in Eural Gnutti SpA's research laboratories, in order to meet the most recent standards for the protection of the environment. It is particularly suitable for being machined on high speed automatic lathes. It has good resistance to corrosion, medium-high mechanical properties, good suitability for decorative and industrial hard anodizing. It is also used for hot forging purposes.

Eural 6026 alloy does not contain tin (Sn) which, as it has been proved, causes weakness and cracking of the machined parts when submitted to stress and high temperature. It is an alternative to 6061, 6082, 6064A, 6262, and 6012 alloys.

**Main applications:** automotive industry, electric and electronic industry, hot forging.

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**

Excellent	Good	Acceptable	Not recommended



Chemical composition	
Si	0,60 ÷ 1,40
Fe	≤0,70
Cu	0,20 ÷ 0,50
Mn	0,20 ÷ 1,00
Mg	0,60 ÷ 1,20
Cr	≤0,30
Ni	
Zn	≤0,30
Ti	≤0,20
Zr	
Pb	≤0,40
Bi	0,50 ÷ 1,50
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	370	300	8	95
	T6*	390	350	10	115
Drawn	T6	370	300	8	95
	T6*	390	350	10	115
	T8	345	315	4	95
	T8*	370	360	10	105
	T9	360	330	4	95
	T9*	400	380	8	110

\* Typical Eural Characteristics