

# 6026 by EURAL



Colour code  
EU orange

# EURAL

GNUTTI S.p.A.

## PRODUCTION PROGRAM

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

Unit: mm	●	■	■	◆
Drawn	7,94 ÷ 76,2	12 ÷ 65	Thick. 12 ÷ 55	12 ÷ 60
Extruded	30 ÷ 254	50 ÷ 165	Thick. 30 ÷ 127	-



## 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 can replace 6061, 6082, 6064A, 6042, 6262, 6012, 2007, 2030 alloys.

**Main applications:** automotive industry, electric and electronic industry, hot forging, screws, bolts, nuts, threaded parts.

Samples of finished products made of Eural bars



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

### Legend



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	Remainder

Physical properties	
Density	$\frac{\text{Kg}}{\text{dm}^3}$ 2,72
Modulus of elasticity	MPa 69.000
Coefficient of thermal expansion	$\times 10^{-6}$ °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 *	400	370	10	110	
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 properties