





6026 by EURAL

 Colour code
EU orange

EURAL

GNUTTI S.p.A.

PRODUCTION PROGRAM

Unit: mm				
Drawn	6 ÷ 76,2	10 ÷ 65	Thick. 12 ÷ 55	10 ÷ 63,5
Extruded	30 ÷ 254	50 ÷ 165	Thick. 30 ÷ 127	-

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























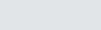
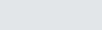
PRESENTATION

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.

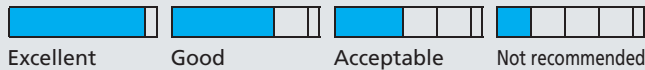
Main applications: automotive industry, electric and electronic industry, hot forging, screws, bolts, nuts, threaded parts.

Samples of finished products made of Eural bars



Properties	T6	T8/T9
Machinability		
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



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
Sn	≤ 0,05
Pb	≤ 0,40
Bi	0,50 ÷ 1,50
Others	Each 0,05 Total 0,15
Al	Remainder

Physical properties	
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
Typical electrical resistivity at 20°C	$\frac{\Omega \text{ mm}^2}{\text{m}}$ 0,039

Mechanical properties					
	Temper	Diam. mm	Rm MPa	Rp0,2 MPa	HBW A%
Drawn	T6	≤ 80	370	300	8 95
	T8	≤ 80	345	315	4 95
	T9	≤ 80	360	330	4 95
Extruded	T6	≤ 140	370	300	8 95
	T6	140 < D ≤ 200	340	250	8 90
	T6	200 < D ≤ 250	300	200	8 90

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