

6026 by EURAL



Colour code
orange

EURAL

GNUTTI S.p.A.

PRODUCTION PROGRAM

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

Unit: in	●	■	■	●
Drawn	0.313 - 3	0.472 - 2.559	Thick. 0.472 - 2.165	0.472 - 2.362
Extruded	1.181 - 10	1.181 - 6.5	Thick. 1.181 - 5	–



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

■	■	■	■
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	Remainder

Physical properties			
Density	lb	0.0983	
	in ³		
Modulus of elasticity	ksi	10,008	
Coefficient of thermal expansion	×10 ⁻⁶	13.0	
	°F		
Thermal conductivity at 68°F	Btu	98.8	
	ft h °F		
Electrical resistivity at 68°F	Ω mm ²	0,039	
	m		

Mechanical properties					
	Temper	UTS ksi	YTS ksi	A%	HBW
Extruded	T6	53.7	43.5	8	95
	T6 *	58.0	53.7	10	110
Drawn	T6	53.7	43.5	8	95
	T6 *	56.6	50.8	10	115
	T8	50.0	45.7	4	95
	T8 *	53.7	52.2	10	105
	T9	52.2	47.9	4	95
	T9 *	58.0	55.1	8	110

* Typical Eural properties