

# 6026 by EURAL

Colour code  
EU orange

# EURAL

GNUTTI S.p.A.

## PRODUCTION PROGRAM

Unit: mm	●	■	■	◆
Drawn	0.236 - 3	0.394 - 2.559	Thick. 0.472 - 2.165	0.394 - 2.5
Extruded	1.181 - 10	2 - 6.5	Thick. 1.181 - 5	-

### 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	Good	Good
Protective anodizing	Good	Good
Decorative anodizing	Good	Good
Hard anodizing	Excellent	Excellent
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	0.60 - 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	0.0983
Modulus of elasticity	10,008
Coefficient of thermal expansion	13.0
Thermal conductivity at 68°F	98.8
Typical electrical resistivity at 68°F	0.039

Minimum mechanical properties					
Temper	Diam. in	UTS YTS		HBW	
		ksi	ksi	A%	Typical
Drawn	T6 ≤ 3	53.7	43.5	8	95
	T8 ≤ 3	50.0	45.7	4	95
	T9 ≤ 3	52.2	47.9	4	95
Extruded	T6 ≤ 5.5	53.7	43.5	8	95
	T6 5.5 < D ≤ 8	49.3	36.3	8	90
	T6 8 < D ≤ 10	43.5	29	8	90

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