

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.

Properties	T6	T8/T9
Machinability	Good	Good
Protective anodizing	Good	Good
Decorative anodizing	Good	Good
Hard anodizing	Good	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
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Samples of finished products made of Eural bars



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	Kg/dm ³ 2,72
Modulus of elasticity	MPa 69.000
Coefficient of thermal expansion	x10 ⁻⁶ /°C 23,4
Thermal conductivity at 20°C	W/mk 172
Typical electrical resistivity at 20°C	Ω mm ² /m 0,039

Minimum mechanical properties					
	Temper	Diam. mm	Rm	Rp0,2	HBW
			MPa	MPa	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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