

# 6026LF

by EURAL



Color code  
White

## Aluminum alloy

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

# Lead Free



# EURAL

GNUTTI S.p.A.  
Aluminium with technology

### PRODUCTION PROGRAM

Unit: in	●	■	■	◆
Drawn	0.236 - 3	0.472 - 2.559	Thick. 0.472 - 2.165	0.472 - 2.362
Extruded	1.181 - 10	1.969 - 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, removing lead. 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 6026LF 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.

Due to its brittle nature, tin has the dangerous tendency to suddenly break without significant previous deformation (strain).

It can replace 2007, 2011, 2015, 2028, 2030, 2044, 6012, 6012A, 6020, 6021, 6023, 6028, 6033, 6040, 6041, 6042, 6061, 6065, 6082, 6262, 6064A, 6262A, 6351, 7020 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	≤ 0.30
Zn	≤ 0.30
Ti	≤ 0.20
Sn	≤ 0.05
Pb	≤ 0.05* (traces)
Bi	0.50 - 1.50
Others	Each 0.05 Total 0.15
Al	Remainder

\* 6026 is registered with Pb ≤ 0.40

#### Physical properties

Density	lb/in <sup>3</sup>	0.0983
Modulus of elasticity	ksi	10,008
Coefficient of thermal expansion	x10 <sup>-6</sup> /°F	13.0
Thermal conductivity at 68°F	Btu/ft h °F	98.8
Electrical resistivity at 68°F	Ω mm <sup>2</sup> /m	0.039

#### Mechanical properties

	Temper	Diam In	UTS ksi	YTS ksi	A%	HBW
Drawn	T6	≤ 3.25	54.0	44.0	6	95
	T8	≤ 3.25	50.0	46.0	3	95
	T9	≤ 3.25	52.0	48.0	3	95
Extruded	T6	≤ 5.5	54.0	44.0	6	95
	T6	5.501 - 8	49.0	36.0	6	90
	T6	8.001 - 10	44.0	29.0	6	90

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