6026 by EURAL



Colour code <mark>orange</mark>

According to EU directives:

2000/53/CE (ELV) – 2011/65/EU (RoHS



PRODUCTION PROGRAM

11)	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

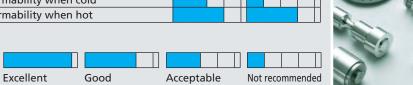
This innovative alloy has been conceived and developed in Eural Gnutti SpA's research laboratories, in order to meet the most recent standards for the protection of the environment. It is particularly suitable for being machined on high speed automatic lathes. It has good resistance to corrosion, medium-high 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	Т6	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		





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		
Density	in ³	0.0983		
Modulus of elasticity	ksi	10,008		
Coefficient of thermal evenesion	x10 ⁻⁶	12.0		
Coefficient of thermal expansion	°F	13.0		
Thermal conductivity at 68°F	Btu	98.8		
Thermal conductivity at 66 F	ft h °F			
Electrical resistivity at 68°F	$\Omega \ { m mm^2}$	0,039		
Electrical resistivity at 00 F	m	0,039		

Mechanical properties					
	Temper	UTS ksi	YTS ksi	A%	HBW
Ided	Т6	53.7	43.5	8	95
Extruded	T6 *	58.0	53.7	10	110
	Т6	53.7	43.5	8	95
	T6 *	56.6	50.8	10	115
Drawn	Т8	50.0	45.7	4	95
	T8 *	53.7	52.2	10	105
	Т9	52.2	47.9	4	95
	T9 *	58.0	55.1	8	110

* Typical Eural properties