6026



Color code orange

According to EU directives:

2000/53/EC (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 is an alternative to 6061, 6082, 6064A, 6042, 6262 and 6012 alloys.

Main applications: automotive industry, electric and electronic industry, hot forging.

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		

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			
Zr				
Pb	≤ 0.40			
Bi	0.50 - 1.50			
Al	Rem.			

Physical characteristics					
Density	lb in³	0.0983			
Modulus of elasticity	ksi	10,008			
Coefficient of thermal expansion	<u>x10⁻⁶</u> °F	13.0			
Thermal conductivity at 68°F	Btu ft h °F	98.8			
Electrical resistivity at 68°F	$\frac{\Omega \text{ mm}^2}{\text{m}}$	0.039			



Mechanical characteristics							
	Temper	UTS ksi	YTS ksi	A%	HBW		
Extruded	Т6	53.7	43.5	8	95		
	T6 *	56.6	50.8	10	115		
Drawn	T6	53.7	43.5	8	95		
	T6 *	56.6	50.8	10	115		
	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 Characteristics							