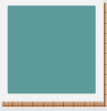


6082 by EURAL



Colour code
EU turquoise

EURAL

GNUTTI S.p.A.

PRODUCTION PROGRAM

Unit: mm	●	■	■	◆
Drawn	7,94 ÷ 76,2	12 ÷ 65	Thick. 12 ÷ 55	12 ÷ 60
Extruded	30 ÷ 254	20 ÷ 165	Thick. 10 ÷ 127	–

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



PRESENTATION

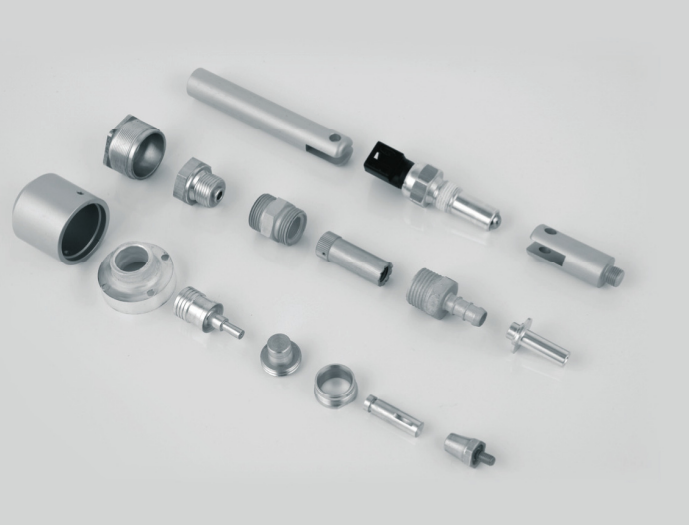
This alloy has medium mechanical properties, but high resistance to corrosion and excellent attitude to weldability, hot forging and anodizing.

Main applications: highly stressed structural parts for ground and nautical means of transport, anti-impact lateral bars, door frame, space frame and sub frame for cars, hydraulic systems, stairs and scaffoldings, platforms, screws and rivets, particulars for nuclear plants, food industry.

Samples of finished products made of Eural bars

Properties	T6
Machinability	Not recommended
Protective anodizing	Excellent
Decorative anodizing	Excellent
Hard anodizing	Excellent
Resistance to atmospheric corrosion	Excellent
Resistance to marine corrosion	Good
MIG-TIG weldability	Excellent
At resistance weldability	Excellent
Brazing weldability	Excellent
Plastic formability when cold	Not recommended
Plastic formability when hot	Not recommended

Legend



Chemical composition

Si	0,70 ÷ 1,30
Fe	≤ 0,50
Cu	≤ 0,10
Mn	0,40 ÷ 1,00
Mg	0,60 ÷ 1,20
Cr	≤ 0,25
Ni	
Zn	≤ 0,20
Ti	≤ 0,10
Zr	
Pb	
Bi	
Al	Remainder

Physical properties

Density	$\frac{\text{Kg}}{\text{dm}^3}$	2,71
Modulus of elasticity	MPa	69.000
Coefficient of thermal expansion	$\frac{\times 10^{-6}}{^{\circ}\text{C}}$	24
Thermal conductivity at 20°C	$\frac{\text{W}}{\text{mk}}$	167
Electrical resistivity at 20°C	$\frac{\Omega \text{ mm}^2}{\text{m}}$	0,037

Mechanical properties

	Temper	Rm MPa	Rp 0,2 MPa	A%	HBW
Extruded	T6	310	260	8	95
	T6 *	325	310	9	105
Drawn	T6	310	255	10	95
	T6 *	380	360	10	110

* Typical Eural properties