

6082 by EURAL



Colour code
EU turquoise

EURAL

GNUTTI S.p.A.

PRODUCTION PROGRAM

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

Unit: mm	●	■	■	◆
Drawn	6 ÷ 76,2	10 ÷ 65	Thick. 12 ÷ 55	10 ÷ 63,5
Extruded	30 ÷ 254	20 ÷ 165	Thick. 10 ÷ 127	–



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	■
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	0,70 ÷ 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
Pb	
Bi	
Others	Each 0,05 Total 0,15
Al	Remainder

Physical properties		
Density	Kg dm ³	2,71
Modulus of elasticity	MPa	69.000
Coefficient of thermal expansion	x10 ⁻⁶ °C	24
Thermal conductivity at 20°C	W mk	167
Typical electrical resistivity at 20°C	Ω mm ² m	0,037

Mechanical properties					
	Temper	Diam. mm	Rm MPa	Rp0,2 MPa	HBW A% Typical
Drawn	T6	≤ 80	310	255	10 95
	T6	≤ 150	310	260	8 95
Extruded	T6	150 < D ≤ 200	280	240	6 95
	T6	200 < D ≤ 250	270	200	6 95

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