6082 by EURAL

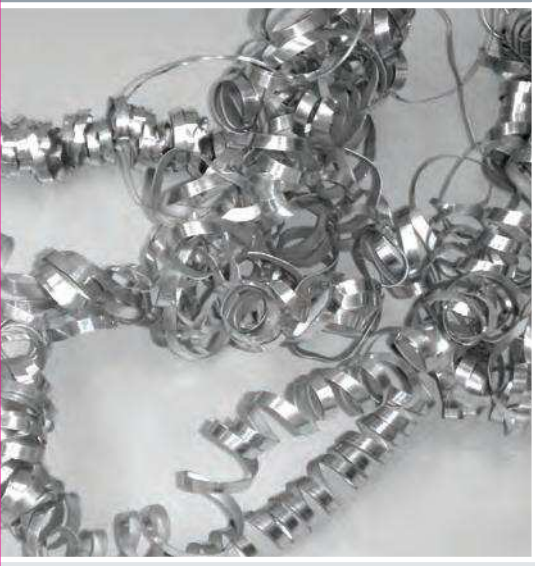
Colour code
EU turquoise

EURAL GNUTTI S.p.A.

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

PRODUCTION PROGRAM

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/dm³	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 mm²/m	0,037

www.eural.com

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

MD70201.02 GB REV 07 03/11/16