

7075 by EURAL



Colour code
EU violet



Colour code
USA black

EURAL

GNUTTI S.p.A.

PRODUCTION PROGRAM

Unit: mm	●	■	■	◆
Drawn	25 ÷ 76,2	–	–	–
Extruded	30 ÷ 254	50 ÷ 165	Thick. 30 ÷ 127	–

According to EU directives:

2000/53/CE (ELV) - 2018/740/EU (RoHS II)



PRESENTATION

This alloy has extremely high mechanical properties and high resistance to fatigue. Moreover, it has good resistance to corrosion and attitude to hard, protective and decorative anodizing.

Main applications: high resistance structural parts for mechanical industry, aviation, defense, motorbike and automotive.

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

Samples of finished products made of Eural bars



Chemical composition	
Si	≤ 0,40
Fe	≤ 0,50
Cu	1,20 ÷ 2,00
Mn	≤ 0,30
Mg	2,10 ÷ 2,90
Cr	0,18 ÷ 0,28
Ni	
Zn	5,10 ÷ 6,10
Ti	≤ 0,20
Pb	
Bi	
Others	Each 0,05 Total 0,15
Al	Remainder

Physical properties		
Density	Kg dm ³	2,80
Modulus of elasticity	MPa	72.000
Coefficient of thermal expansion	x10 ⁻⁶ °C	23,5
Thermal conductivity at 20°C	W mk	130
Typical electrical resistivity at 20°C	Ω mm ² m	0,052

Minimum mechanical properties						
Temper	Diam. mm	Rm MPa	Rp0,2 MPa	HBW A%	Typical	
Drawn	T6	≤ 80	540	485	7	150
	T651	≤ 80	540	485	5	150
	T73	≤ 80	455	385	10	135
	T7351	≤ 80	455	385	8	135
Extruded	T6, T6510, T6511	≤ 100	560	500	7	150
	T6, T6510, T6511	100 < D ≤ 150	550	440	5	150
	T6, T6510, T6511	150 < D ≤ 200	440	400	5	150
	T73, T73510, T73511	≤ 75	475	405	7	135
	T73, T73510, T7351	75 < D ≤ 100	470	390	6	135
	T73, T73510, T7351	100 < D ≤ 150	440	360	6	135

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