

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/EU (ELV) – 2011/65/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.

Samples of finished products made of Eural bars

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

Legend



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

Mechanical properties					
	Temper	Diam. mm	Rm MPa	Rp0,2 MPa	HBW A%
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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