

# 6262A

# EURAL

GNUTTI S.p.A.

According to EU directives:  
2000/53/CE (ELV) – 2002/95/CE (RoHS)

## PRESENTATION

This is an ecologic alloy, it does not have lead, it has good machinability and high mechanical characteristics. Moreover it has a good resistance to corrosion and suitability to hard, protective and decorative anodizing.

**Main applications:** machining on high speed automatic lathes, particulars for automotive applications, automatic transmission shafts, valves and clutches, hydraulic parts.

**NOTE:** it is particularly suitable for the realization of parts not subject to extreme heat solicitations (no more than 140°C) and therefore it is appropriate for automotive parts as automatic transmission shafts. For higher temperatures, we suggest to use other Eural alloys, as 6026 or 6064A.



Properties	T6	T8/T9
Machinability	Excellent	Good
Protective anodizing	Good	Acceptable
Decorative anodizing	Good	Acceptable
Hard anodizing	Acceptable	Not recommended
Resistance to atmospheric corrosion	Good	Acceptable
Resistance to marine corrosion	Acceptable	Not recommended
MIG-TIG weldability	Good	Acceptable
At resistance weldability	Good	Acceptable
Brazing weldability	Good	Acceptable
Plastic formability when cold	Acceptable	Not recommended
Plastic formability when hot	Acceptable	Not recommended

### Legend



Chemical composition	
Si	0,40 ÷ 0,80
Fe	≤ 0,70
Cu	0,15 ÷ 0,40
Mn	≤ 0,15
Mg	0,80 ÷ 1,20
Cr	0,04 ÷ 0,14
Ni	
Zn	≤ 0,25
Ti	≤ 0,10
Zr	
Bi	0,40 ÷ 0,90
Sn	0,40 ÷ 1,00
Al	Rem.

Physical characteristics		
Density	$\frac{\text{Kg}}{\text{dm}^3}$	2,72
Modulus of elasticity	MPa	69.000
Coefficient of thermal expansion	$\frac{\times 10^{-6}}{^{\circ}\text{C}}$	23,4
Thermal conductivity at 20°C	$\frac{\text{W}}{\text{mk}}$	172
Electrical resistivity at 20°C	$\frac{\Omega \text{ mm}^2}{\text{m}}$	0,038

Mechanical characteristics					
	Temper	Rm MPa	Rp 0,2 Mpa	A%	HBW
Extruded	T6	260	240	10	
	T6 *	350	320	10	105
Drawn	T6	290	240	10	
	T6 *	350	295	12	95
	T8	345	315	4	
	T8 *	360	330	11	95
	T9	360	330	4	
	T9 *	395	385	6	110
* Typical Eural Characteristics					