6262A

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.

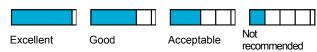
Main applications: machining on high speed automatic lathes, particulars for automotive applications, automatic transmission shafts, valves and clutches, hydraulic parts.

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	Т6	T8/T9
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



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	Kg dm³	2,72	
Modulus of elasticity	MPa	69.000	
Coefficient of thermal expansion	<u>x10⁻⁶</u> °C	23,4	
Thermal conductivity at 20°C	W mk	172	
Electrical resistivity at 20°C	$\frac{\Omega \text{ mm}^2}{\text{m}}$	0,038	

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Mechanical characteristics						
	Temper	Rm MPa	Rp 0,2 Mpa	A%	HBW	
Extruded	Т6	260	240	10		
	T6 *	350	320	10	105	
Drawn	Т6	290	240	10		
	T6 *	350	295	12	95	
	Т8	345	315	4		
	T8 *	360	330	11	95	
	Т9	360	330	4		
	T9 *	395	385	6	110	
* Typical Eural Characteristics						