6262A by EURAL

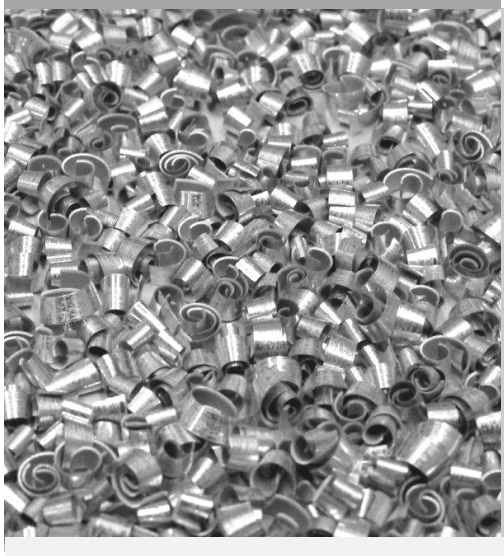
Color code
green

EURAL GNUTTI S.p.A.

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

PRODUCTION PROGRAM

Unit: in	●	■	▬	⬢
Drawn	0.312 - 3	0.472 - 2.559	Thick. 0.472 - 2.165	0.472 - 2.362
Extruded	1.181 - 10	1.969 - 6.5	Thick. 1.181 - 5	–



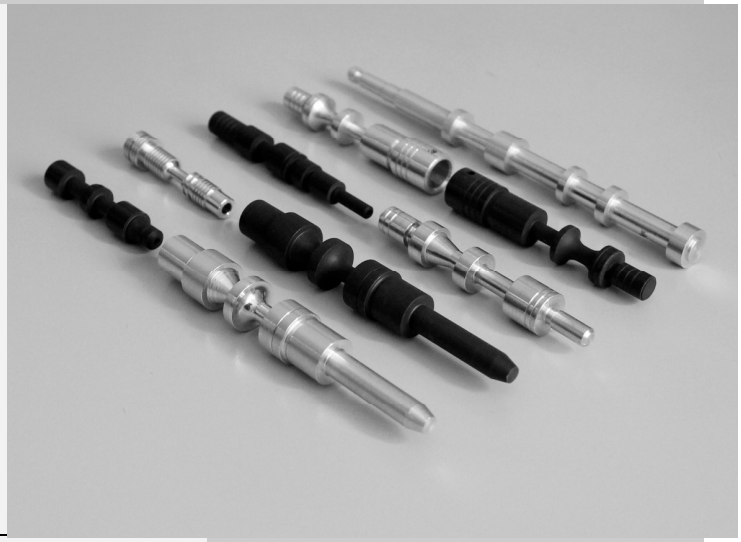
PRESENTATION

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.
It is an alternative to 6012, 6262, 6020, 6023 alloys.

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 (max 284°F) 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.

Samples of finished products made of Eural bars



Properties	T6	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

■ Excellent ▪ Good ▫ Acceptable ▫ Not recommended

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	≤ 0.15
Zr	
Bi	0.40 - 0.90
Sn	0.40 - 1.00
Al	Remainder

Physical properties		
Density	$\frac{lb}{in^3}$	0.0983
Modulus of elasticity	ksi	10,008
Coefficient of thermal expansion	$\frac{x10^{-6}}{°F}$	13.0
Thermal conductivity at 68°F	$\frac{W}{mk}$	98.8
Electrical resistivity at 68°F	$\frac{\Omega\ mm^2}{m}$	0.038

Mechanical properties	Temper	UTS ksi	YTS ksi	A%	HBW
Extruded	T6	37.7	34.8	10	
	T6 *	50.8	46.4	10	105
Drawn	T6	42.1	34.8	10	
	T6 *	50.8	42.8	12	95
	T8	50.0	45.7	4	
	T8 *	52.2	47.9	11	95
	T9	52.2	47.9	4	
	T9 *	57.3	55.8	6	110

** Typical Eural properties*