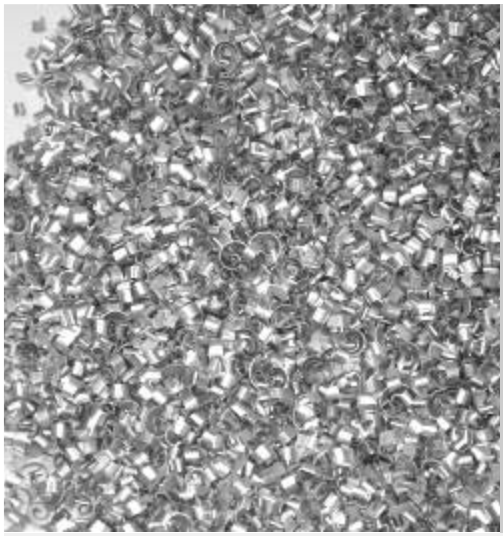
EURAL GNUTTI S.p.A.

2007 by EURAL

Color code **black**

PRODUCTION PROGRAM

Unit: in	●	■	▬	⬢
Drawn	0.551 - 2.756	0.787 - 2.559	Thick. 0.472 - 2.165	0.787 - 2.362
Extruded	1.181 - 10	1.969 - 6.5	Thick. 1.181 - 5	–



PRESENTATION

Among aluminum alloys for high speed automatic lathes, 2030 and 2007 have the highest mechanical characteristics.
This alloy is the most often selected when it is required to have a good combination of machinability and high mechanical properties. It has low corrosion resistance.

Main applications: screws, bolts, nuts, threaded bars.

Samples of finished products made of Eural bars

Properties	T3/T4
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	≤ 0.80
Fe	≤ 0.80
Cu	3.30 - 4.60
Mn	0.50 - 1.00
Mg	0.40 - 1.80
Cr	≤ 0.10
Ni	≤ 0.20
Zn	≤ 0.80
Ti	≤ 0.20
Zr	
Pb	0.80 - 1.00
Bi	≤ 0.20
Sn	≤ 0.20
Al	Remainder

Physical properties		
Density	$\frac{lb}{in^3}$	0.103
Modulus of elasticity	ksi	10,298
Coefficient of thermal expansion	$\frac{x10^{-6}}{°F}$	13.1
Thermal conductivity at 68 °F	$\frac{Btu}{ft\ h\ °F}$	80.4
Electrical resistivity at 68 °F	$\frac{\Omega\ mm^2}{m}$	0.057

Mechanical properties	Temper	UTS ksi	YTS ksi	A%	HBW
Extruded	T4	53.7	36.3	8	95
	T4 *	60.9	43.5	13	120
Drawn	T3	53.7	34.8	7	95
	T3 *	68.2	62.4	8	130

** Typical Eural properties*