

2030 by EURAL



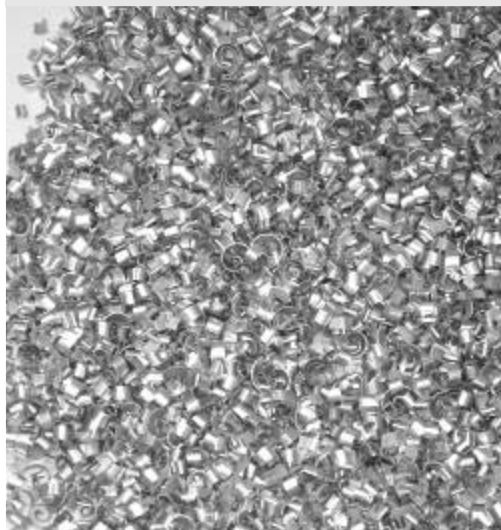
Color code
black

EURAL

GNUTTI S.p.A.

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	■

Legenda

■	■	■	■
Excellent	Good	Acceptable	Not recommended



Chemical composition	
Si	≤ 0.80
Fe	≤ 0.70
Cu	3.30 - 4.50
Mn	0.20 - 1.00
Mg	0.50 - 1.30
Cr	≤ 0.10
Ni	
Zn	≤ 0.50
Ti	≤ 0.20
Zr	
Pb	0.80 - 1.00
Bi	≤ 0.20
Al	Remainder

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

Mechanical properties					
	Temper	UTS ksi	YTS ksi	A%	HBW
Extruded	T4	53.7	36.3	8	115
	T4 *	60.9	43.5	13	120
Drawn	T3	53.7	34.8	7	115
	T3 *	68.2	62.4	8	130

** Typical Eural properties*