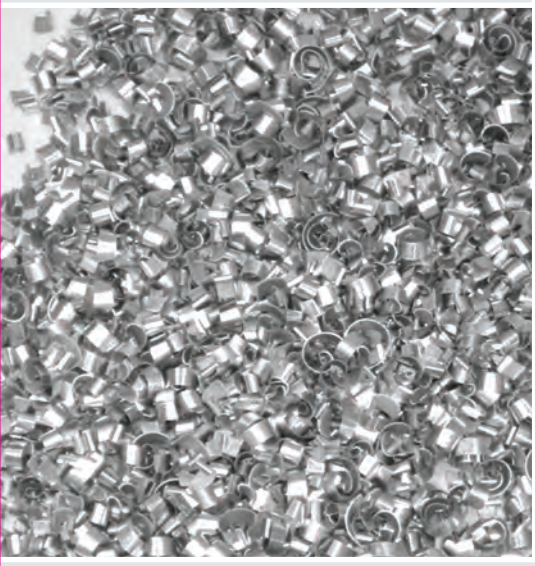
2007 by EURAL

Colour code
EU black

EURAL GNUTTI S.p.A.

PRODUCTION PROGRAM

Unit: mm	●	■	▬	⬢
Drawn	14 ÷ 76,2	20 ÷ 65	Thick. 12 ÷ 55	20 ÷ 63,5
Extruded	30 ÷ 254	30 ÷ 165	Thick. 30 ÷ 127	–



PRESENTATION

Among aluminium 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
Pb	0,80 ÷ 1,00
Bi	≤ 0,20
Sn	≤ 0,20
Others	Each 0,10 Total 0,30
Al	Remainder

Physical properties		
Density	Kg / dm³	2,85
Modulus of elasticity	MPa	71.000
Coefficient of thermal expansion	x10⁻⁶ / °C	23,5
Thermal conductivity at 20°C	W / mk	140
Typical electrical resistivity at 20°C	Ω mm² / m	0,057

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Mechanical properties						
	Temper	Diam. mm	Rm MPa	Rp0,2 MPa	A%	HBW Typical
Drawn	T3	≤ 30	370	240	7	95
	T3	30 < D ≤ 80	340	220	6	95
	T351	≤ 80	370	240	5	95
Extruded	T4, T4510, T4511	≤ 80	370	250	8	95
	T4, T4510, T4511	80 < D ≤ 200	340	220	8	95
	T4, T4510, T4511	200 < D ≤ 250	330	210	7	95

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