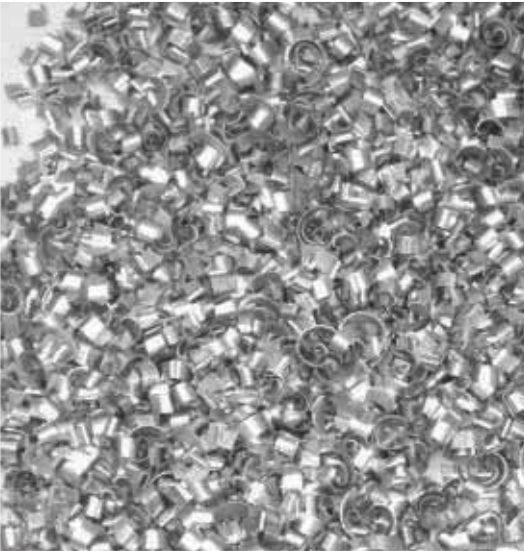




## PRODUCTION PROGRAM

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.

It can be replaced by alloy 2033 LEAD FREE by EURAL.

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

Properties	T3/T4
Machinability	Excellent
Protective anodizing	Good
Decorative anodizing	Acceptable
Hard anodizing	Not recommended
Resistance to atmospheric corrosion	Good
Resistance to marine corrosion	Acceptable
MIG-TIG weldability	Good
At resistance weldability	Acceptable
Brazing weldability	Not recommended
Plastic formability when cold	Acceptable
Plastic formability when hot	Good

### Legend

Excellent	Good	Acceptable	Not recommended
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### Samples of finished products made of Eural bars



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 / dm <sup>3</sup>	2,85
Modulus of elasticity	MPa	71.000
Coefficient of thermal expansion	x10 <sup>-6</sup> / °C	23,5
Thermal conductivity at 20°C	W / mk	140
Typical electrical resistivity at 20°C	Ω mm <sup>2</sup> / m	0,057

Minimum mechanical properties					
Temper	Diam. mm	Rm	Rp0,2	HBW	A% Typical
		MPa	MPa		
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