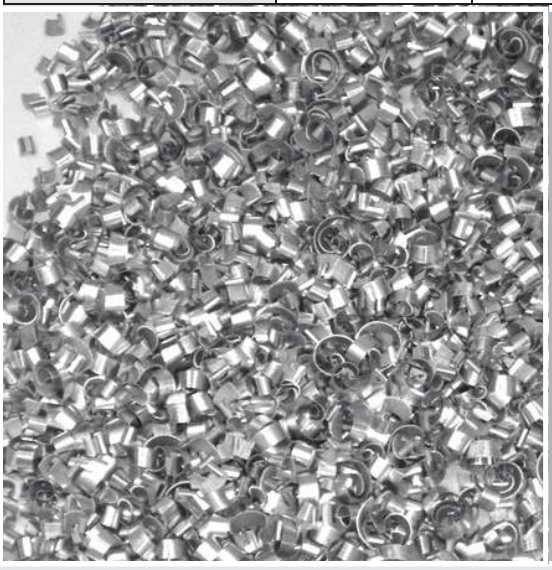
2007 by EURAL

Meets the requirements of alloy 2030 (EN AW2030)

Color code
black

PRODUCTION PROGRAM

Unit: in	●	■	▬	⬢
Drawn	0.551 - 3	0.787 - 2.559	Thick. 0.472 - 2.165	0.787 - 2.5
Extruded	1.181 - 10	1.181 - 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	≤ 0.70
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
Pb	0.80 - 1.00
Bi	≤ 0.20
Sn	
Others	Each 0.10 Total 0.30
Al	Remainder

Physical properties		
Density	lb / in ^{3}	0.103
Modulus of elasticity	ksi	10,298
Coeffi cient of thermal expansion	x10^{-6} / °F	13.1
Thermal conductivity at 68°F	Btu / ft h °F	80.4
Typical electrical resistivity at 68°F	Ω mm^2 / m	0.057

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Minimum mechanical properties						
	Temper	Diam. in	UTS ksi	YTS ksi	A%	HBW Typical
Drawn	T3	≤ 1.2	53.7	34.8	7	115
	T3	1.2 < D ≤ 3	49.3	31.9	6	115
	T351	≤ 3	53.7	34.8	5	115
Extruded	T4, T4510, T4511	≤ 3	53.7	36.3	8	115
	T4, T4510, T4511	3 < D ≤ 8	49.3	31.9	8	115
	T4, T4510, T4511	8 < D ≤ 10	47.9	30.5	7	115

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