



PRODUCTION PROGRAM

Unit: in	●	■	■	●
Drawn	0.236 - 3	0.394 - 2.559	Thick. 0.472 - 2.165	0.394 - 2.5
Extruded	1.181 - 10	2 - 6.5	Thick. 1.181 - 5	-

According to EU directives:

2000/53/EU (ELV) – 2011/65/EU (RoHS II)



PRESENTATION

This alloy has good machinability and high mechanical properties. Moreover it has good resistance to corrosion and suitability to hard, protective and decorative anodizing.

Main applications: particulars for braking systems for automotive, structural components for civil constructions, railroad and heavy street vehicles.

Samples of finished products made of Eural bars

Properties	T6	T8/T9
Machinability	Excellent	Good
Protective anodizing	Good	Acceptable
Decorative anodizing	Good	Acceptable
Hard anodizing	Good	Acceptable
Resistance to atmospheric corrosion	Good	Acceptable
Resistance to marine corrosion	Good	Acceptable
MIG-TIG weldability	Good	Acceptable
At resistance weldability	Good	Acceptable
Brazing weldability	Good	Acceptable
Plastic formability when cold	Good	Acceptable
Plastic formability when hot	Good	Acceptable

Legend

Excellent	Good	Acceptable	Not recommended
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Chemical composition	
Si	0.40 - 0.80
Fe	≤ 0.70
Cu	0.15 - 0.40
Mn	≤ 0.15
Mg	0.80 - 1.20
Cr	0.04 - 0.14
Ni	
Zn	≤ 0.25
Ti	≤ 0.15
Pb	0.20 - 0.40
Bi	0.40 - 0.80
Others	Each 0,05 Total 0,15
Al	Remainder

Physical properties	
Density	0.0983
Modulus of elasticity	10,008
Coefficient of thermal expansion	13.0
Thermal conductivity at 68°F	98.8
Typical electrical resistivity at 68°F	0.039

Minimum mechanical properties				
Temper	Diam. in	UTS	YTS	HBW
		ksi	ksi	A% Typical
Drawn	T6	45.0	37.7	8 95
	T8	50.0	45.7	4 95
	T9	52.2	47.1	4 95
Extruded	T6, T6510, T6511 ≤ 5.5	45.0	37.7	8 95
	T6, T6510, T6511 5.5 < D ≤ 10	37.7	34.8	8 90