





Thick. 0.472 - 2.165

Thick. 1.181 - 5

0.394 - 2.5

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PRODUCTION PROGRAM

According to EU directives: 2000/53/EU (ELV) - 2011/65/EU (RoHS II)



PRESENTATION

Unit: in

Drawn

Extruded

This alloy has medium mechanical properties, but high resistance to corrosion and excellent attitude to weldability, hot forging and anodizing.

0.236 - 3

1.181 - 10

Main applications: highly stressed structural parts for ground and nautical means of transport, anti-impact lateral bars, door frame, space frame and sub frame for cars, hydraulic systems, stairs and scaffoldings, platforms, screws and rivets, particulars for nuclear plants, food industry.

0.394 - 2.559

2 - 6.5

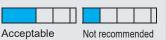
Samples of finished products made of Eural bars

Properties	T6
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	

Good

Legend

Excellent



Chemical composition				
Si	0.70 - 1.30			
Fe	≤ 0.50			
Cu	≤ 0.10			
Mn	0.40 - 1.00			
Mg	0.60 - 1.20			
Cr	≤ 0.25			
Ni				
Zn	≤ 0.20			
Ti	≤ 0.10			
Pb				
Bi				
Others	Each 0.05 Total 0.15			
AI	Remainder			

Physical properties					
Density	lb in ³	0.0979			
Modulus of elasticity	ksi	10,008			
Coeffi cient of thermal expansion	x10 ⁻⁶ °F	13.3			
Thermal conductivity at 68°F	Btu ft h °F	95.9			
Typical electrical resistivity at 68°F	$\frac{\Omega \text{ mm}^2}{\text{m}}$	0.037			

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Minimum mechanical properties						
			UTS YTS		HBW	
_	Temper	Diam. in	ksi ksi	A%	Typical	
Drawn	Τ6	≤ 3	45.0 37.0	10	95	
Extruded	Т6	≤ 6	45.0 37.7	8	95	
	Т6	6 < D ≤ 8	40.6 34.8	6	95	
	Т6	8 < D ≤ 10	39.2 29.0	6	95	