

6061 by EURAL

Colour code EU blue



PRODUCTION PROGRAM

Unit: in					According to EU directives:
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	-	



PRESENTATION

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

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.

Samples of finished products made of Eural bars

Properties	Т6		
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	0.40 - 0.80			
Fe	≤ 0.70			
Cu	0.15 - 0.40			
Mn	≤ 0.15			
Mg	0.80 - 1.20			
Cr	0.04 - 0.35			
Ni				
Zn	≤ 0.25			
Ti	≤ 0.15			
Pb				
Bi				
Others	Each 0.05 Total 0.15			
Al	Remainder			

Physical properties					
Density	lb in ³	0.0979			
Modulus of elasticity	ksi	10,008			
Coefficient of thermal expansion	x10 ⁻⁶ °F	13.1			
Thermal conductivity at 68°F	Btu ft h °F	99.4			
Typical electrical resistivity at 68°F	$\frac{\Omega \text{ mm}^2}{\text{m}}$	0.037			

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	Minimum	mechanica	al prope	erties		
			UTS	YTS		HBW
	Temper	Diam. in	ksi	ksi	A%	Typica
Drawn	T6	≤ 3	42.1	34.8	10	95
Extruded	Т6	≤ 8	37.7	34.8	8	95