6061



According to EU directives:

2000/53/EC (ELV) - 2011/65/EU (RoHS II)





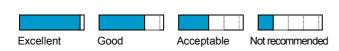
PRESENTATION

This alloy presents medium mechanical properties and an excellent resistance to corrosion and good weldability properties.

Main applications: stressed structures such as towers and shafts, carpentry, components for railroad, nautical, defense, aviation means of transport. For cars, extrusions for seat guide, bumpers, ABS parts and sub frame.

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	

Legend



Chemical composition				
Cileilicai	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			
Zr				
Pb	_			
Bi				
Al	Rem.			

Physical characteristics				
Density	lb in³	0.0979		
Modulus of elasticity	ksi	10,008		
Coefficient of thermal expansion	<u>x10⁻⁶</u> °F	13.1		
Thermal conductivity at 68°F	Btu ft h °F	99.4		
Electrical resistivity at 68°F	$\frac{\Omega \text{ mm}^2}{\text{m}}$	0.037		

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Mechanical characteristics						
	Temper	UTS ksi	YTS ksi	A%	HBW	
Drawn Extruded	Т6	37.7	34.8	8	95	
	T6 *	52.2	46.4	11	110	
	Т6	42.1	34.8	10	95	
	T6 *	53.7	47.9	10	110	

* Typical Eural Characteristics