



According to EU directives:
2000/53/CE (ELV) - 2002/95/CE (RoHS)



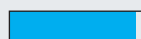
PRESENTATION

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

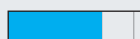
Main applications: highly stressed structural parts for ground and nautical means of transport, anti-impact lateral bars, door frame, space frame and sub frame for cars, hydraulic systems, stairs and scaffoldings, platforms, screws and rivets, particularly for nuclear plants, food industry.

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

Legend



Excellent



Good



Acceptable



Not recommended



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
Zr	
Pb	
Bi	
Al	Rem.

Physical characteristics	
Density	$\frac{Kg}{dm^3}$ 2,71
Modulus of elasticity	MPa 69.000
Coefficient of thermal expansion	$\frac{x10^{-6}}{^{\circ}C}$ 24
Thermal conductivity at 20°C	$\frac{W}{mk}$ 167
Electrical resistivity at 20°C	$\frac{\Omega mm^2}{m}$ 0,037

Mechanical properties					
	Temper	Rm MPa	Rp 0,2 MPa	A%	HBW
Extruded	T6	310	260	8	95
	T6*	325	285	10	105
Drawn	T6	310	255	10	95
	T6*	380	360	10	110

* Typical Eural Characteristics