



Colour code USA red

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



## PRESENTATION

This alloy has high mechanical properties and excellent resistance to fatigue. During machining, it creates quite long chips, therefore it is not well suited for automatic lathes.

It can be replaced by 2030 which has the same mechanical properties but has better machinability, allowing higher productivity.

**Main applications:** high structural resistance components for aviation, defence, high resistance components, screws and bolts.

Properties	T3	
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		

Good

Acceptable

Excellent

Chemical composition					
Si	≤0,50				
Fe	≤0,50				
Cu	3,80 ÷ 4,90				
Mn	0,30 ÷ 0,90				
Mg	1,20 ÷ 1,80				
Cr	0,10				
Ni					
Zn	≤0,25				
Ti	≤0,15				
Zr					
Pb					
Bi					
Al Rem.					

Physical characteristics						
Density	Kg dm ³	2,79				
Modulus of elasticity	MPa	70.000				
Coefficient of thermal expansion	x10-6 °C	23,1				
Thermal conductivity at 20°C	W mk	120				
Electrical resistivity at 20°C	$\frac{\Omega \text{ mm }^2}{\text{m}}$	0,057				

Not recommended



	Mechanical properties							
	Temper	Rm MPa	Rp 0,2 MPa	Α%	HBW			
Extruded	T3	440	300	8	120			
	T3*	490	380	8	130			
Drawn	Т3	425	290	9	120			
	T3*	520	420	10	140			

\* Typical Eural Characteristics