

2014A by EURAL



PRODUCTION PROGRAM

Unit: in				•
Drawn	0.551 - 3	0.787 - 2.559	Thick. 0.472 - 2.165	0.787 - 2.362
Extruded	1.181 - 10	1.969 - 6.5	Thick. 1.181 - 5	-

According to directives:

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



PRESENTATION

This alloy has high mechanical properties, excellent resistance to fatigue, good attitude to forging and a fair machinability.

2014A by Eural can also be made according to aerospace BS L168 standard, which requires higher mechanical properties compared to traditional EN standards. This version is available only for extruded bars in T6511 temper, from diameter 1.818" up to 6".

Main applications: High structural resistance components for aircraft and defense.

Samples of finished products made of Eural bars

Properties	T3/T4/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		





Chemical composition				
Si	0.50 - 0.90			
Fe	≤ 0.50			
Cu	3.90 - 5.00			
Mn	0.40 - 1.20			
Mg	0.20 - 0.80			
Cr	≤ 0.10			
Ni	≤ 0.10			
Zn	≤ 0.25			
Ti	≤ 0.15			
Zr + Ti	0.20			
Al	Remainder			

Physical properties					
Density	lb in ³	0.101			
Modulus of elasticity	ksi	10,500			
Coefficient of thermal expansion	_x10 ⁻⁶ °F	12.8			
Thermal conductivity at 68°F	Btu ft h °F	T4: 77.4 T6: 89.5			
Electrical resistivity at 68°F	Ω mm² m	T4: 0.051 T6: 0.043			

Mechanical properties					
	Temper	Rm MPa	Rp 0,2 MPa	A%	HBW
Extruded	T4 T4511	56.6	36.3	10	_
	T6 T6511	67.4	60.9	7	-
	T6511 BSL168	71.1	63.8	7	-
Drawn	T3	55.1	42.1	8	-
	T351	55.1	42.1	6	-
	T4	55.1	31.9	12	-
	T451	55.1	31.9	10	
	T6	65.3	55.1	8	-
	T651	65.3	55.1	6	-

MD70201.02 US REV 06 01/08/14