

6262A by EURAL

Colour code EU green



PRODUCTION PROGRAM

Unit: mm				
Drawn	6 ÷ 76,2	10 ÷ 65	Thick. 12 ÷ 55	10 ÷ 63,5
Extruded	30 ÷ 254	50 ÷ 165	Thick. 30 ÷ 127	-

According to EU directives: 2000/53/EU (ELV) - 2018/740/EU (RoHS II)



PRESENTATION

This is an ecologic alloy, it does not have lead, it has good machinability and high mechanical characteristics. Moreover, it has a good resistance to corrosion and suitability to hard, protective and decorative anodizing. It is an alternative to 6012, 6262, 6020, 6023 alloys.

Main applications: machining on high-speed automatic lathes, particulars for automotive applications, automatic transmission shafts, valves and clutches, hydraulic parts.

NOTE: it is particularly suitable for the realization of parts not subject to extreme heat solicitations (max 160°C) and therefore it is appropriate for automotive parts as automatic transmission shafts.

For higher temperatures, we suggest to use other Eural alloys, as 6026 LEAD FREE, 6026 or 6064A.

Properties	T6	T8/T9	
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			

Samples of finished products made of Eural bars



Legend

Excellent	Good	Acceptable	Not recommended

Chemical composition			
Si	$0,40 \div 0,80$		
Fe	≤ 0,70		
Cu	0,15 ÷ 0,40		
Mn	≤ 0,15		
Mg	0,80 ÷ 1,20		
Cr	0,04 ÷ 0,14		
Ni			
Zn	≤ 0,25		
Ti	≤ 0,10		
Bi	0,40 ÷ 0,90		
Sn	0,40 ÷ 1,00		
Others	Each 0,05 Total 0,15		
Al	Remainder		

Physical properties			
Density	Kg	2,72	
Density	dm³		
Modulus of elasticity	MPa	69.000	
Coefficient of the contract of the	x10 ⁻⁶	22.4	
Coefficient of thermal expansion	°C	23,4	
Thermal conductivity at 20°C	W	172	
Thermal conductivity at 20 C	mk	172	
Typical electrical resistivity at 20°C	Ω mm 2	0.038	
Typical electrical resistivity at 20 C	m	0,036	

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	Minimum mechanical properties				
			Rm Rp0,2	2 HBW	
1	Temper	Diam. mm	MPa MPa	A% Typical	
	T6	≤ 80	290 24	0 10 -	
Drawn	T8	≤ 50	345 31	5 4 -	
	Т9	≤ 50	360 330	0 4 -	
ded	T6	≤ 220	260 24	0 10 75	
Extruded					