7075 by EURAL





PRODUCTION PROGRAM

According to EU directives:

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

	_			_
Unit: in				
Drawn	0.75 - 3	•	-	-
Extruded	0.181 - 10	2 - 6.5	Thick. 1.181 - 5	-

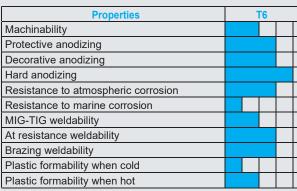


PRESENTATION

This alloy has extremely properties high mechanical and high sistance to fatigue. Moreover, it has good corroresistance to protective decorative anodizing.

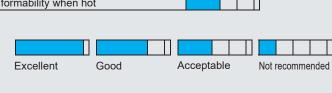
Main applications: high resistance structural parts for mechanical industry, aviation, defense, motorbike and automotive.

Samples of finished products made of Eural bars









Chemical composition				
Si	≤ 0.40			
Fe	≤ 0.50			
Cu	1.20 - 2.00			
Mn	≤ 0.30			
Mg	2.10 - 2.90			
Cr	0.18 - 0.28			
Ni				
Zn	5.10 ÷ 6.10			
Ti	≤ 0.20			
Pb				
Bi				
Others	Each 0.05 Total 0.15			
Al	Remainder			

Physical propo	erties	
Density	lb in 3	0.1012
Modulus of elasticity	ksi	10,443
Coefficient of thermal expansion	x10 ⁻⁶ °F	13.1
Thermal conductivity at 68°F	Btu ft h °F	74.7
Typical electrical resistivity at 68°F	$\frac{\Omega \text{ mm}^2}{\text{m}}$	0.052

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Samples	of finished pr	oduc	ets made of Eural b	ars		ı		
						5		
s		-	Minimum med	chanical m	rone	rties		
lb in ³	0.1012		Temper	Diam. in		YTS ksi		HBW Typical
ksi	10,443		T6	≤ 3	78.3	70.3	7	150
	10,440	Drawn	T651	≤ 3		70.3	5	150
x10 ⁻⁶	13.1	۵	T73	≤ 3		55.8	10	135
°F	10.1		T7351	≤ 3		55.8	8	135
Btu	74.7		T6, T6510, T6511	≤4 4 < D < 6		72.5	7	150
ft h °F	14.1	D	T6, T6510, T6511	4 < D ≤ 6			5	150
•		ndec	T6, T6510, T6511	6 < D ≤ 8	63.8	58.0	5	
$\Omega \text{ mm}^2$	0.050	rude						150
$\frac{\Omega \text{ mm}^2}{\text{m}}$	0.052	Extruded	T73, T73510, T73511	≤ 3	68.9	58.7	7	135
	0.052	Extrude		≤ 3 3 < D ≤ 4	68.9 68.2	58.7 56.6		