

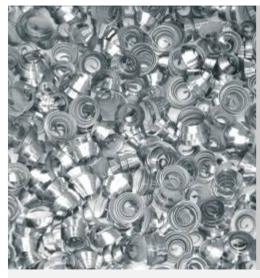




## PRODUCTION PROGRAM

Unit: in				•
Drawn	0.313 - 3	0.472 - 2.559	Thick. 0.472 - 2.165	0.472 - 2.362
Extruded	1.181 - 10	1.969 - 6.5	Thick. 1.181 - 5	_

According to EU directives: 2000/53/EC (ELV) - 2011/65/EU (RoHS II)

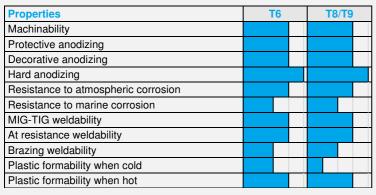


## **PRESENTATION**

This alloy has good machinability and high mechanical properties. Moreover, it has good resistance to corrosion and suitability to hard, protective and decorative anodizing.

Main applications: particulars for braking systems for automotive, structural components for civil constructions, railroad and heavy street vehicles.

## Samples of finished products made of Eural bars







Chemical composition			
Si	0.40 - 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	≤ 0,15		
Zr			
Ph	0.20 - 0.40		

0.40 - 0.80

Remainder

Bi

Αl

Physical properties			
Density	lb in³	0.0983	
Modulus of elasticity	ksi	10,008	
Coefficient of thermal expansion	<u>x10<sup>-6</sup></u> °F	13.0	
Thermal conductivity at 68°F	Btu ft h ℉	98.8	
Electrical resistivity at 68 °F	Ω mm² m	0.039	

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Physical propert	ies			
Density	lb in <sup>3</sup>	0.0983		Temp
			papr	T6
Modulus of elasticity	ksi	10,008	Extruded	T6 <sup>*</sup>
Coefficient of thermal expansion	<u>x10<sup>-6</sup></u> °F	13.0		Т6
· 				T6 <sup>3</sup>
Thermal conductivity at 68 °F	Btu ft h °F	98.8	Drawn	T8
	$\Omega$ mm <sup>2</sup>	0.039	Dis	T8 <sup>3</sup>
Electrical resistivity at 68 °F	m			Т9
				T9 '

	Temper	UTS ksi	YTS ksi	A%	HBW
Extruded	T6	37.7	34.8	10	90
	T6 *	50.8	46.4	10	110
Drawn	T6	42.1	34.8	10	90
	T6 *	50.8	42.8	12	95
	T8	50.0	45.7	4	95
	T8 *	54.4	51.5	10	105
	Т9	52.2	47.9	4	95
	T9 *	55.8	53.7	7	110
* Typical Eural properties					

**Mechanical properties**