



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	—



PRESENTATION

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

Main applications: structural components for civil construction, railroad and street heavy vehicles.

Samples of finished products made of Eural bars

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	■	■

Legend

■	■	■	■
Excellent	Good	Acceptable	Not recommended



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	
Pb	0.40 - 0.70
Bi	0.40 - 0.70
Al	Remainder

Physical properties		
Density	$\frac{\text{lb}}{\text{in}^3}$	0.0983
Modulus of elasticity	ksi	10,008
Coefficient of thermal expansion	$\frac{\times 10^{-6}}{^{\circ}\text{F}}$	13.0
Thermal conductivity at 68 °F	$\frac{\text{W}}{\text{mk}}$	98.8
Electrical resistivity at 68 °F	$\frac{\Omega \text{ mm}^2}{\text{m}}$	0.038

Mechanical properties					
	Temper	UTS ksi	YTS ksi	A%	HBW
Extruded	T6	37.7	34.8	10	
	T6 *	50.8	46.4	10	105
Drawn	T6	42.1	34.8	10	
	T6 *	50.8	42.8	12	95
	T8	50.0	45.7	4	
	T8 *	52.2	47.9	11	95
	T9	52.2	47.9	4	
	T9 *	57.3	55.8	6	110

* Typical Eural properties