6064A by EURAL

Colour code
EU yellow

Colour code
USA orange

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) – 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

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
Pb	0,20 ÷ 0,40
Bi	0,40 ÷ 0,80
Others	Each 0,05 Total 0,15
Al	Remainder

Physical properties		
Density	Kg/dm³	2,72
Modulus of elasticity	MPa	69.000
Coefficient of thermal expansion	x10⁻⁶/°C	23,4
Thermal conductivity at 20°C	W/mk	172
Typical electrical resistivity at 20°C	Ω mm²/m	0,039

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Mechanical properties						
	Temper	Diam. mm	Rm MPa	Rp0,2 MPa	A%	HBW Typical
Drawn	T6	≤ 80	310	260	8	95
	T8	≤ 80	345	315	4	95
	T9	≤ 80	360	330	4	95
Extruded	T6, T6510, T6511	≤ 140	310	260	8	95
	T6, T6510, T6511	140 < D ≤ 250	260	240	8	90

MD70201.02 GB REV 07 03/11/16