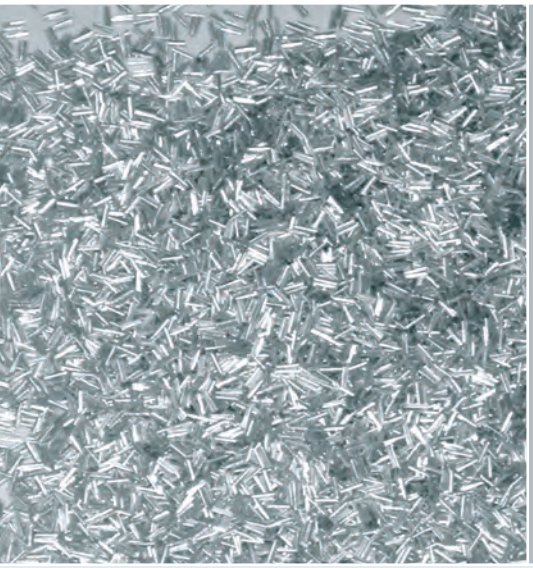
2011

Colour code
EU red

Colour code
USA brown

According to EU directives:
2000/53/CE (ELV) - 2002/95/CE (RoHS)

EURAL
GNUTTI S.p.A.



PRESENTATION

This alloy is the most often selected for high speed automatic lathes.
It offers the following advantages:

- easy machining with any equipment;
- cutting stress lower than most of other alloys;
- longer life of cutting tools;
- cutting area always clean due to very thin chip;
- high mechanical properties;
- possibility to anodize finished parts in several colours *.

Main applications: screws, bolts, nuts, threaded bars.

** To get an optimal surface finishing of anodized pieces, we suggest using suitable lubricants during machining.*

Properties	T3/T6	T8
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
Fe	≤0,70
Cu	5,00 ÷ 6,00
Mn	
Mg	
Cr	
Ni	
Zn	≤0,30
Ti	
Zr	
Pb	0,20 ÷ 0,40
Bi	0,20 ÷ 0,60
Al	Rem.

Physical characteristics		
Density	$\frac{Kg}{dm^3}$	2,83
Modulus of elasticity	MPa	70.000
Coefficient of thermal expansion	$\frac{x10^{-6}}{°C}$	22,9
Thermal conductivity at 20°C	$\frac{W}{mk}$	T3:151 T8:171
Electrical resistivity at 20°C	$\frac{\Omega\ mm^2}{m}$	T3:0,038 T8:0,043

Mechanical properties	Temper	Rm MPa	Rp 0,2 MPa	A%	HBW
Extruded	T6	310	230	8	110
	T6*	360	245	16	120
Drawn	T3	320	270	10	90
	T3*	370	280	15	115
	T8	370	270	8	115
	T8*	400	310	16	125

** Typical Eural Characteristics*