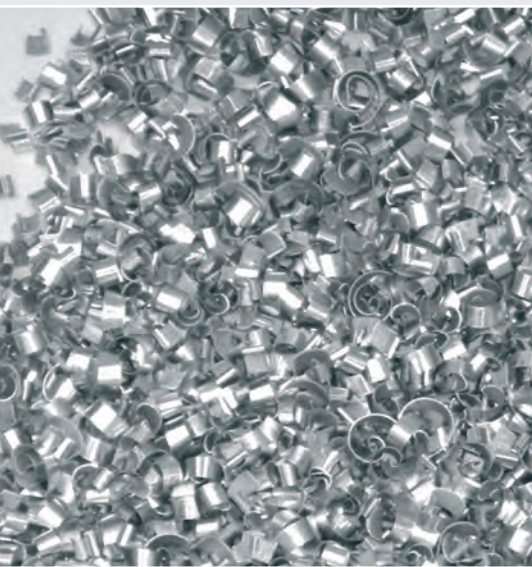


2030

Colour code
EU black

EURAL

GNUTTI S.p.A.


PRESENTATION

Among aluminium alloys for high speed automatic lathes, 2030 and 2007 have the highest mechanical characteristics.

This alloy is the most often selected when it is required to have a good combination of machinability and high mechanical properties. It has low corrosion resistance; therefore it is recommended to have a protective anodizing of finished products.

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

Properties	T3/T4
Machinability	Excellent
Protective anodizing	Good
Decorative anodizing	Acceptable
Hard anodizing	Not recommended
Resistance to atmospheric corrosion	Good
Resistance to marine corrosion	Acceptable
MIG-TIG weldability	Good
At resistance weldability	Good
Brazing weldability	Not recommended
Plastic formability when cold	Good
Plastic formability when hot	Acceptable

Legend



Chemical composition	
Si	≤0,80
Fe	≤0,70
Cu	3,30 ÷ 4,50
Mn	0,20 ÷ 1,00
Mg	0,50 ÷ 1,30
Cr	≤0,10
Ni	
Zn	≤0,50
Ti	≤0,20
Zr	
Pb	0,80 ÷ 1,00
Bi	≤0,20
Al	Rem.

Physical characteristics		
Density	$\frac{\text{Kg}}{\text{dm}^3}$	2,85
Modulus of elasticity	MPa	71.000
Coefficient of thermal expansion	$\frac{\times 10^{-6}}{^{\circ}\text{C}}$	23,5
Thermal conductivity at 20°C	$\frac{\text{W}}{\text{mk}}$	140
Electrical resistivity at 20°C	$\frac{\Omega \text{ mm}^2}{\text{m}}$	0,057

Mechanical properties					
	Temper	Rm MPa	Rp 0,2 MPa	A%	HBW
Extruded	T4	370	250	8	115
	T4*	440	300	12	125
Drawn	T3	370	240	8	115
	T3*	465	410	8	125

* Typical Eural Characteristics