EURAL

GNUTTI S.p.A.

ALUMINIUM ALLOY BARS

2011 ALLOY IN ALL COLOURS ANODIZING QUALITY

RS

for a long
able for
matic
bi-

EURAL
GNUTTI S.p.A.

Product range

Round bars

Drawn
ø 5 mm. ÷ ø 60 mm.
(up to 80 mm on request)

Extruded
ø 60 mm. ÷ ø 200 mm.

Hexagonal bars

Drawn
10 mm. ÷ 50 mm.

Square bars

Drawn
10 mm. ÷ 60 mm.

Extruded
65 mm. ÷ 130 mm.

2011

This alloy is particularly suitable to be machined on high speed automatic lathes and gives the following advantages:

- excellent machinability with any type of tool
- cutting stress lower than most of the other alloys
- longer life of cutting tools
- cutting area always clear due to fine chip
- high mechanical properties
- possibility of anodizing the finished parts in various colours*

2011alloy is the most suitable alloy for high speed free machining.

* We recommend the use of correct lubricants during machining in order to achieve the best finish of the anodized parts.

Chemical composition %	Cu	Bi	Pb	Fe	Si	Zn	Others	Al
	5,0÷6,0	0,2÷0,6	0,2÷0,6	≤0,7	≤0,4	≤0,3	≤0,15	Remainder

PHYSICAL CHARACTERISTICS

Density	$\frac{kg}{dm^3}$	2,83
Modulus of elasticity	$\frac{N}{mm^2}$	70.000
Coefficient of thermal expansion	$\frac{\times 10^6}{C}$	22,9
Thermal conductivity at 20 °C	$\frac{w}{mk}$	151÷172
Electrical conductivity at 20 °C	$\frac{m}{\Omega mm^2}$	23÷26

MINIMUM MECHANICAL PROPERTIES

Condition	Rm N/mm²	Rp 02 - Rm N/mm²	%	Hb
T 3	320	270	10	
Typical Eural	360	300	12	115
T 8	370	275	10	
Typical Eural	400	310	15	120

EURAL GNUTTI S.p.A.

EURAL GNUTTI S.p.A.
via S. Andrea, 3
25038 Rovato, Brescia (Italy)
Phone 00390307725011

Manufacture of profiles, tubes and bars in aluminium alloys

Quality system according to UNI EN ISO 9002 standard certified by DET NORSKE VERITAS

- **Bars department**
  Fax 0307702847
  E-mail: bars@eural.com
- **Sections department**
  Fax 0307701228
  E-mail: sections@eural.com
- **Accounting department**
  Fax 0307702837
  E-mail: account@eural.com
- **Administration**
  Fax 0307701227
  E-mail: admin@eural.com
- **Home Page**: http://www.eural.com
  E-mail: eural@eural.com

United Kingdom Civil Aviation Authority

AIR NAVIGATION ORDER APPROVAL

Head - office • Semifinished products plant • Sales department

via S. Andrea, 3 • 25038 Rovato, Brescia (Italy)

Phone 00390307725011

Bars department • Fax 00390307702847

EURAL

GNUTTI S.p.A.

M070201.04 GB Rev. 00 del 20-02-2000