

# 6262 by EURAL





 Colour code  
EU yellow

 Colour code  
USA orange

# EURAL

GNUTTI S.p.A.

## PRODUCTION PROGRAM





















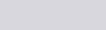
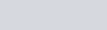
| Unit: mm |  |  |  |  |
|----------|---|---|---|---|
| Drawn    | 6 ÷ 76,2  | 10 ÷ 65   | Thick. 12 ÷ 55  | 10 ÷ 63,5   |
| Extruded | 30 ÷ 254  | 50 ÷ 165  | Thick. 30 ÷ 127   | -   |



## 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 constructions, railroad and street heavy vehicles.

| 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



Samples of finished products made of Eural bars



| 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                   | 0,40 ÷ 0,70          |
| Bi                   | 0,40 ÷ 0,70          |
| Others               | Each 0,05 Total 0,15 |
| Al                   | Remainder            |

| Physical properties                    |  |
|--|--|
| Density                                | $\frac{\text{Kg}}{\text{dm}^3}$ 2,72           |
| Modulus of elasticity                  | MPa 69.000                                     |
| Coefficient of thermal expansion       | $\frac{\times 10^{-6}}{^{\circ}\text{C}}$ 23,4 |
| Thermal conductivity at 20°C           | $\frac{\text{W}}{\text{mk}}$ 172               |
| Typical electrical resistivity at 20°C | $\frac{\Omega \text{ mm}^2}{\text{m}}$ 0,038   |

| Minimum mechanical properties |          |       |         |     |         |
|-------------------------------|----------|-------|---------|-----|---------|
| Temper                        | Diam. mm | Rm    | Rp0,2   | HBW |         |
|                               |          | MPa   | MPa     | A%  | Typical |
| Drawn                         | T6       | ≤ 80  | 290 240 | 10  | 85      |
|                               | T8       | ≤ 50  | 345 315 | 4   | -       |
|                               | T9       | ≤ 50  | 360 330 | 4   | -       |
| Extruded                      | T6       | ≤ 200 | 260 240 | 10  | 75      |

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