

# 6262 by EURAL



Color code  
orange



### PRODUCTION PROGRAM

| Unit: in | ●          | ■             | ■                    | ◆           |
|----------|------------|---------------|----------------------|-------------|
| Drawn    | 0.236 - 3  | 0.394 - 2.559 | Thick. 0.472 - 2.165 | 0.394 - 2.5 |
| Extruded | 1.181 - 10 | 2 - 6.5       | Thick. 1.181 - 5     | -           |



### 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.

Samples of finished products made of Eural bars



| Properties                          | T6        | T8/T9 |
|-------------------------------------|-----------|-------|
| Machinability                       | Excellent | Good  |
| Protective anodizing                | Good      | Good  |
| Decorative anodizing                | Good      | Good  |
| Hard anodizing                      | Good      | Good  |
| Resistance to atmospheric corrosion | Good      | Good  |
| Resistance to marine corrosion      | Good      | Good  |
| MIG-TIG weldability                 | Good      | Good  |
| At resistance weldability           | Good      | Good  |
| Brazing weldability                 | Good      | Good  |
| Plastic formability when cold       | Good      | Good  |
| Plastic formability when hot        | Good      | Good  |

### 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                   | 0.40 - 0.70          |
| Bi                   | 0.40 - 0.70          |
| Others               | Each 0.05 Total 0.15 |
| Al                   | Remainder            |

| Physical properties                    |                            |
|--|----------------------------|
| Density                                | lb/in <sup>3</sup> 0.0983  |
| Modulus of elasticity                  | ksi 10,008                 |
| Coefficient of thermal expansion       | °F x10 <sup>-6</sup> 13.0  |
| Thermal conductivity at 68°F           | Btu/ft h °F 98.8           |
| Typical electrical resistivity at 68°F | Ω mm <sup>2</sup> /m 0.038 |

| Minimum mechanical properties |          |         |         |        |         |
|-------------------------------|----------|---------|---------|--------|---------|
| Temper                        | Diam. in | UTS ksi | YTS ksi | HBW A% | Typical |
| T6                            | ≤ 3      | 42.1    | 34.8    | 10     | 85      |
| T8                            | ≤ 2      | 50.0    | 45.7    | 4      | -       |
| T9                            | ≤ 2      | 52.2    | 47.9    | 4      | -       |
| T6                            | ≤ 8      | 37.7    | 34.8    | 10     | 75      |

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