



# Metal Alloys Corporation



## YELLOW BRASS "63.5%"

### EQUIVALENT SPECIFICATIONS

| SPECIFICATIONS | DESIGNATION |
|----------------|-------------|
| European       | CuZn36      |
| Czech Republic | CuZn36      |

CuZn37 is the major brass alloy for the cold forming process. Even though brasses with lower Zinc content have better cold forming properties, CuZn37 is the most used alloy. Reasons for this are on the one hand economical due to lower price of Zinc compared to Copper, on the other hand the forming properties of this alloy meet the demand of many applications

### TYPICAL APPLICATIONS:

**Fasteners:** Fasteners, Fasteners

**Industrial:** Cold Headed Parts, Heat Exchanger Shells, Pump Cylinder Liners

### CHEMICAL COMPOSITION

|          | Cu          | Fe  | Pb  | Zn   |
|----------|-------------|-----|-----|------|
| Min/Max  | 62.0 - 65.0 | .07 | .07 | Rem  |
| Nominals | 63.5        | -   | -   | 36.5 |

### PHYSICAL PROPERTIES

|                                  |  |
|----------------------------------|--|
| Melting Point - Liquidus         | 1680 F   |
| Density                          | 0.305 lb/in <sup>3</sup> at 68 F               |
| Specific Gravity                 | 8.440  |
| Electrical Conductivity          | 27.60 %IACS @ 68 F                             |
| Thermal Conductivity             | 67 Btu • ft/(hr • ft <sup>2</sup> • oF) at 68F |
| Coefficient of Thermal Expansion | 11.40 • 10 <sup>-6</sup> per oF (68-572 F)     |
| Specific Heat Capacity           | 0.090 Btu/lb/oF at 68 F                        |
| Modulus of Elasticity in Tension | 15000 ksi                                      |
| Modulus of Rigidity              | 5600 ksi                                       |

### SIZES AVAILABLE :

|                     |                                       |
|---------------------|---------------------------------------|
| WIRE                | 1mm To 8 mm                           |
| HOLLOW RODS         | Min Bore Size 20 mm and Max OD 100 mm |
| ROUND RODS/BARS     | 6mm To 130 mm                         |
| HEX                 | 5mm To 60mm                           |
| SQUARE              | 4mm To 60mm                           |
| FLAT                | 5mm Min Thickness and max Width 120mm |
| PROFILES / SECTIONS | AS per Customer Drawing               |
| BILLETS             | Up to 200 mm                          |
| INGOTS              | AS per Specification                  |

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