



NICKEL SILVER

EQUIVALENT SPECIFICATIONS

| SPECIFICATIONS | DESIGNATION |
|----------------|--------------|
| ISO | CuZn37pb1Sn1 |
| European | CuZn37pb1Sn1 |
| Czech Republic | CuZn37pb1Sn1 |
| Portugal | CuZn37pb1Sn1 |

TYPICAL USES

- **Architecture:** Ornamental Castings
- **Builders Hardware:** Hardware
- **Consumer:** Musical Instruments Components
- **Industrial:** Valves, Fittings for Dairy and Food Processing

CHEMICAL COMPOSITION

| | Cu | Fe | Pb | Zn | Ni | Mn |
|-----------|-----------|------|---------|-----|------|---------|
| Min./Max. | 45.5-48.5 | 0-25 | 1.5-2.5 | Rem | 9-11 | 1.5-2.5 |

PHYSICAL PROPERTIES

| | |
|----------------------------------|---|
| MELTING POINT - LIQUIDUS | 2156 F |
| MELTING POINT - SOLIDUS | 2084 F |
| DENSITY | 0.320 LB/IN ³ AT 68 F |
| SPECIFIC GRAVITY | 8.860 |
| ELECTRICAL RESISTIVITY | 231.40 OHMS-CMIL/FT @ 68 F |
| ELECTRICAL CONDUCTIVITY | 4 %IACS @ 68 F |
| THERMAL CONDUCTIVITY | 14.70 BTU • FT/(HR • FT ² • °F) AT 68F |
| COEFFICIENT OF THERMAL EXPANSION | 9.70 • 10 ⁻⁶ PER OF (68-392 F) |
| SPECIFIC HEAT CAPACITY | 0.090 BTU/LB/° F AT 68 F |
| MODULAS OF ELASTICITY IN TENSION | 19000 KSI |

SIZES AVAILABLE :

| | |
|---------------------|---------------------------------------|
| 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 |

Regd. Office & Plant
 Plot No. 6 & 7, Village: Lakhavaval, Post: Khodiyar Colony, Jamnagar - 361006.
 Tel.: +91-288-2889251 / 52, Fax: +91-288-2889223, Cell: +91-9924443396
 Email: info@metalalloyscorp.com • web: www.metalalloyscorp.com



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