



SHREE EXTRUSIONS LIMITED



C69430 SILICON RED BRASS

EQUIVALENT SPECIFICATIONS

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

Excellent hot and cold workability; good forge ability. Fabricated by bending, coining, coppersmith, drawing and upsetting, hot forging and pressing, knurling, roll threading, shearing, spinning, swaging, and stamping.

TYPICAL APPLICATIONS:

Industrial: Valves Stems

CHEMICAL COMPOSITION

| | As | Cu | Fe | Pb | Si | Zn |
|----------|-------------|-------------|-----|-----|-----------|---------|
| Min/Max | 0.03 - 0.06 | 80.0 - 83.0 | 0.2 | 0.3 | 3.5 - 4.5 | Rem |
| Nominals | 0.0400 | 81.5000 | - | - | 4.0000 | 14.5000 |

PHYSICAL PROPERTIES

| | |
|----------------------------------|--|
| Coefficient of Thermal Expansion | 11.2 Å • 10-6 per oF (68-572 F) |
| Density | 0.26 lb/in3 at 68 F |
| Electrical Conductivity | 6 %IACS @ 68 F |
| Electrical Resistivity | 167.0 ohms-cmil/ft @ 68 F |
| Melting Point - Liquidus | 1685 F |
| Melting Point - Solidus | 1510 F |
| Modulus of Elasticity in Tension | 16000 ksi |
| Specific Gravity | 8.19 |
| Specific Heat Capacity | 0.09 Btu/lb/oF at 68 F |
| Thermal Conductivity | 15.0 Btu Å • ft/(hr Å • ft2Å • oF)at 68F |

SIZES AVAILABLE :

| | |
|---------------------|---------------------------------------|
| WIRE | 1mm TO 8 mm |
| HOLLOW RODS/BARS | Min Bore Size 20 mm and Max OD 100 mm |
| ROUND RODS | 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 200mm |
| INGOTS | AS per Specification |

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NABL / ISO : 15189
Accreditation Number M - 0000



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