



SHREE EXTRUSIONS LIMITED

C67400

MANGANESE BRONZE

EQUIVALENT SPECIFICATIONS

| SPECIFICATIONS | DESIGNATION |
|----------------|-------------|
| UNS | C66800 |
| UNS | C67300 |
| UNS | C67420 |

C67400 : 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 USES:

INDUSTRIAL: Bushings, Shafts, Cams, Chain Guides, Wear Plates, Gears, Food Conveyor Chain

OTHER: Connecting Rods

CHEMICAL COMPOSITION

| | Al | Cu | Fe | Pb | Mn | Ni | Si | Sn | Zn |
|----------|------------|-------------|------|-----|-----------|------|------------|-----|---------|
| Min/Max | 0.50 - 2.0 | 57.0 - 60.0 | 0.35 | 0.5 | 2.0 - 3.5 | 0.25 | 0.50 - 1.5 | 0.3 | Rem |
| Nominals | 1.2000 | 58.5000 | - | - | 2.8000 | - | 1.0000 | - | 36.5000 |

PHYSICAL PROPERTIES

| Product Property | US Customary |
|----------------------------------|--|
| Coefficient of Thermal Expansion | 11.0 $\text{Å} \cdot 10^{-6}$ per oF (68-572 F) |
| Density | 0.292 lb/in ³ at 68 F |
| Electrical Conductivity | 23 %IACS @ 68 F |
| Electrical Resistivity | 45.1 ohms-cmil/ft @ 68 F |
| Melting Point - Liquidus | 1625 F |
| Melting Point - Solidus | 1590 F |
| Modulus of Elasticity in Tension | 16000 ksi |
| Modulus of Rigidity | 6000 ksi |
| Specific Gravity | 8.08 |
| Specific Heat Capacity | 0.09 Btu/lb/oF at 68 F |
| Thermal Conductivity | 58.0 Btu $\text{Å} \cdot \text{ft}/(\text{hr} \text{Å} \cdot \text{ft}^2 \text{Å} \cdot \text{oF})$ at 68F |

SIZES AVAILABLE :

| | |
|------------|--|
| ROUND RODS | 8mm To 100 mm |
| HEX | 10mm To 60mm |
| SQUARE | 10mm To 60mm |
| FLAT | 10mm Min Thickness and max Width 120mm |
| BILLETS | Up to 200 mm |
| INGOTS | As per Specification |

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