



# SHREE EXTRUSIONS LIMITED

## C31400

## LEADED COMMERCIAL BRONZE

Leaded Commercial Bronze C31400 combines the natural corrosion resistance of C22000 with the machinability typical of leaded brasses. Like C22000, it is an alpha brass nominally composed of 89% copper and 9% zinc, but it also contains approximately 2% lead to impart free-cutting characteristics. The relatively low zinc content of C31400 provides excellent corrosion resistance in potable water along with a pleasing golden color that matches C22000 hardware. Alloy C31400 is also suitable for outdoor use due to its resistance to stress corrosion cracking and to corrosion in general, but where the highest strength is not required.

### TYPICAL USES :

**BUILDERS HARDWARE:** Door Knobs **ELECTRICAL:** Connectors for Wire and Cable, Electrical Plug Type Connectors

**FASTENERS:** Screws, Nuts **INDUSTRIAL:** Pickling Fixtures, Pickling Racks, Pickling Crates, Screw Machine Parts

### CHEMICAL COMPOSITION

	Cu	Fe	Pb	Ni	Zn
Min/Max	87.5 - 90.5	0.1	1.3 - 2.5	0.7	Rem
Nominals	89.0000	-	1.9000	-	9.1000

### PHYSICAL PROPERTIES

Product Property	US Customary
Coefficient of Thermal Expansion	10.2 • 10 <sup>-6</sup> per oF (68-572 F)
Density	0.319 lb/in <sup>3</sup> @ 68 F
Electrical Conductivity	42 %IACS @ 68 F
Electrical Resistivity	24.7 ohms-cmil/ft @ 68 F
Melting Point Liquid US	1900 F
Melting Point Solid US	1850 F
Modulus of Elasticity in Tension	17000 ksi
Modulus of Rigidity	6400 ksi
Specific Gravity	8.83
Specific Heat Capacity	0.09 Btu/lb/°F @ 68 F
Thermal Conductivity	104.0 Btu • ft/(hr • ft <sup>2</sup> • °F) @ 68 F

### SIZES AVAILABLE :

HOLLOW RODS

ROUND RODS/BARS

HEX

SQUARE

FLAT

PROFILES / SECTIONS

BILLETS

INGOTS

Min Bore Size 20 mm and Max OD 100 mm

6mm To 130 mm

5mm To 60mm

4mm To 60mm

5mm Min Thickness and max Width 120mm

S per Customer Drawing

Up to 200 mm

AS per Specification

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NABL / ISO : 15189  
Accreditation Number M - 0000



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