



SHREE EXTRUSIONS LIMITED



C31600

NICKEL LEADED COMMERCIAL BRONZE

Nickel Bearing C31600 is composed of approximately 89% copper, 8% zinc, and 2% lead, but also contains 1% nickel. This alloy combines the natural corrosion resistance and machinability of C31400 with a higher tensile and yield strength resulting from the controlled addition of nickel. The relatively low zinc content provides excellent corrosion resistance in potable water along with a pleasing golden color that matches C22000 hardware. It also possesses a particular resistance to stress corrosion cracking. It is an alloy suitable for outdoor use where higher strength is required.

TYPICAL USES :

BUILDERS HARDWARE: Hardware **ELECTRICAL:** Connectors **FASTENERS:** Fasteners, Nuts, Screws
INDUSTRIAL: Screw Machine Parts

CHEMICAL COMPOSITION

	Cu	Fe	Pb	Ni	P	Zn
Min/Max	87.5 - 90.5	0.1	1.3 - 2.5	0.7 - 1.2	0.04 - 0.1	Rem
Nominals	89.0000	-	1.9000	1.0000	0.7000	8.1000

PHYSICAL PROPERTIES

Product Property	US Customary
Coefficient of Thermal Expansion	10.2 • 10-6 per oF (68-572 F)
Density	0.32 lb/in3 @ 68 F
Electrical Conductivity	32 %IACS @ 68 F
Electrical Resistivity	32.4 ohms-cmil/ft @ 68 F
Melting Point Liquid US	1900 F
Melting Point Solid US	1850 F
Modulus of Elasticity in Tension	17000 ksi
Specific Gravity	8.86
Specific Heat Capacity	0.09 Btu/lb/°F @ 68 F
Thermal Conductivity	81.0 Btu • ft/(hr • ft2 • °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
AS per Customer Drawing
Up to 200 mm
AS per Specification

Regd. Office & Works:
217/218 Phase-II, Okha Rajkot Road, Dared, Jamnagar - 361 004. INDIA
Tel.: +91 - 288 - 2730118 | Mobile: +91 - 9328105172
mail@shree-extrusion.com | www.shree-extrusion.com



Quality, Technology & Vision at it's Best...