



Metal Alloys Corporation



NAVAL BRASS "HIGH LEADED"

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
European	CuZn36Pb2Sn1
BS	CZ 134
Australia	485

High ductility, high electrical and thermal conductivity, high impact strength, good creep resistance, ease of welding, and low volatility under high vacuum.

TYPICAL APPLICATIONS:

FASTENERS: Fasteners

INDUSTRIAL: Valve Stems, Light Bearings, Gears, Screw Machine Parts

MARINE: Marine Hardware, Seawater Valve Stems

CHEMICAL COMPOSITION

	Cu	Fe	Pb	Sn	Zn
Min/Max	59.0 - 62.0	0.1	1.3 - 2.2	0.5 - 1.0	Rem
Nominals	60.5000	-	1.8000	0.7000	37.5000

PHYSICAL PROPERTIES

Coefficient of Thermal Expansion	11.8 $\times 10^{-6}$ per oF (68-572 F)
Density	0.305 lb/in ³ @ 68 F
Electrical Conductivity	26 %IACS @ 68 F
Electrical Resistivity	39.9 ohms-cmil/ft @ 68 F
Melting Point Liquid US	1650 F
Melting Point Solid US	1630 F
Modulus of Elasticity in Tension	15000 ksi
Modulus of Rigidity	5600 ksi
Specific Gravity	8.44
Specific Heat Capacity	0.09 Btu/lb/ Δ° F @ 68 F
Thermal Conductivity	67.0 Btu Δ° ft/(hr Δ° ft ² Δ° F) @ 68 F

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

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