



NAVAL BRASS "MEDIUM LEAD"

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:

Marine hardware, screw machine products, valve stems.
Common Fabrication Processes
Hot forging, pressing and machining.

CHEMICAL COMPOSITION

	Cu	Fe	Pb	Sn	Zn
Min/Max	59.0 - 62.0	0.1	0.40-1.0	0.5 - 1.0	Rem
Nominal	60.5000	-	0.7	0.8	38.0

PHYSICAL PROPERTIES

Melting Point - Liquidus °F	1650
Melting Point - Solidus °F	1630
Densitylb/cu in. at 68 °F	0.305
Specific Gravity	8.44
Electrical Conductivity% IACS at 68 °F	26
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68 °F	67
Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 - 572 °F)	11.8
Specific Heat CapacityBtu/ lb / °F at 68 °F	0.09
Modulus of Elasticity in Tensionksi	15000
Modulus of Rigidityksi	5600

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

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