



Metal Alloys Corporation



FREE MACHINING BRASS / FREE CUTTING BRASS

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuZn36Pb3
European	CuZn36Pb3
BS	CZ-124
Russian	LS63-3

C36000 Free Machining Brass / Free Cutting Brass is ideally suited for high speed machining operations with its superior machinability, thread rolling and knurling characteristics. Its machinability rating of 100 is standard against which all other copper alloys are rated. It is easily soldered or brazed and has good resistance to corrosion.

TYPICAL APPLICATIONS:

BUILDERS HARDWARE: Lock Bodies, Hardware, Fittings **CONSUMER:** Hot Combs (to Straighten Hair)

FASTENERS: Bolts, Nuts, Screws

INDUSTRIAL: Faucet Components, Pneumatic Fittings, Fluid Connectors, Automatic Screw Machine Parts, Unions, Adapters, Screw Machine Products, Gauges, Valve Seats, Valve Trim, Valve Stems, Nozzles, Pinions, Gears

PLUMBING: Plumbers' Brass Goods, Faucet Stems, Faucet Seats, Plumbing Fittings

CHEMICAL COMPOSITION

	Cu	Fe	Pb	Zn
Min/Max	60.0 - 63.0	0.35	2.5 - 3.7	Rem
Nominals	61.5000	-	3.1000	35.4000

PHYSICAL PROPERTIES

Coefficient of Thermal Expansion	11.4 \hat{A} • 10 ⁻⁶ per oF (68-572 F)
Density	0.307 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	14000 ksi
Modulus of Rigidity	5300 ksi
Specific Gravity	8.5
Thermal Conductivity	67.0 Btu \hat{A} • ft/(hr \hat{A} • ft ² \hat{A} • \hat{A} °F) @ 68 F

SIZES AVAILABLE :

WIRE	1mm To 8 mm
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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