



Metal Alloys Corporation



FORGING BRASS

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuZn40Pb2
European	CuZn40Pb2
BS	CZ-122
JIS	C 3561
Russian	LS59-3

The exceptional hot working characteristics of C37700 makes it the classic alloy for forgings. With outstanding flow characteristics, this alloy can be forged and machined into sophisticated and most complex components. C37700 can also easily be electroplated with various finishes.

TYPICAL APPLICATIONS:

BUILDERS HARDWARE: Door Handles, Decorative Knobs, Furniture Hardware

BUILDING: Valve Bodies for Refrigeration, Chemicals

CONSUMER: Golf Putters, Valve Bodies for Scuba & Propane Spray Tanks, Valve Bodies for Agricultural Spray Tanks

ELECTRICAL: Covers, Fuse Bodies

INDUSTRIAL: Valve Components, Forgings and Pressings of All Kinds

CHEMICAL COMPOSITION

	Cu	Fe	Pb	Zn
Min/Max	58.0 - 61.0	0.3	1.5 - 2.5	Rem
Nominals	59.5000	-	2.0000	38.0000

PHYSICAL PROPERTIES

Coefficient of Thermal Expansion	11.5 • 10 ⁻⁶ per oF (68-572 F)
Density	0.305 lb/in ³ @ 68 F
Electrical Conductivity	27 %IACS @ 68 F
Electrical Resistivity	38.4 ohms-cmil/ft @ 68 F
Melting Point Liquid US	1640 F
Melting Point Solid US	1620 F
Modulus of Elasticity in Tension	15000 ksi
Modulus of Rigidity	5600 ksi
Specific Gravity	8.44
Specific Heat Capacity	0.09 Btu/lb/°F @ 68 F
Thermal Conductivity	69.0 Btu • ft/(hr • ft ² • °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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