



ARCHITECTURAL BRONZE

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuZn39Pb3
European	CuZn39Pb3
BS	CZ-121
JIS	C 3561
Russian	LS59-3

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:

ARCHITECTURE: Elevator Trim, Thresholds, Door Frames, Handrails, Terrazzo Strip, Shower Doors, Privacy Sun Grills, Trim, Store Fronts, Architectural Forgings, extrusions, Architectural Moldings, Window Mullions, Bathroom Partition Brackets

BUILDERS HARDWARE: Hinges, Drawer Pulls, Lock Cams, butts, Slide Bolts, Lock Bodies, Drawer Handles

CONSUMER: Picture Frames, Funeral Urns, Lamps, Fireplace Screens, Straight Edges, Handles, Hot Combs (to straighten hair), Squeegee Retainers

INDUSTRIAL: Valve Trim, Press Brake Ram Clamps, Valve Stems, Valves, Gauges, Valve Seats, Forgings, Wheeled Racks

CHEMICAL COMPOSITION

	Cu	As	Pb	Zn
Min/Max	55.0 - 59.0	0.35	2.5 - 3.5	Rem
Nominals	57.0000	-	3.0000	40.0000

PHYSICAL PROPERTIES

Coefficient of Thermal Expansion	11.65 • 10 ⁻⁶ per oF (68-572 F)
Density	0.306 lb/in ³ @ 68 F
Electrical Conductivity	28 %IACS @ 68 F
Electrical Resistivity	37 ohms-cmil/ft @ 68 F
Melting Point Liquid US	1630 F
Melting Point Solid US	1610 F
Modulus of Elasticity in Tension	14000 ksi
Modulus of Rigidity	5300 ksi
Specific Gravity	8.47
Specific Heat Capacity	0.09 Btu/lb/°F @ 68 F
Thermal Conductivity	71.0 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
Plot No. 6 & 7, Village: Lakhavaval, Post: Khodiyar Colony, Jamnagar - 361006.
Tel.: +91-288-2889251 / 52, Fax: +91-288-2889223, Cell: +91-9924443396
Email: info@metalalloyscorp.com • web: www.metalalloyscorp.com



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