



C22000

RED BRASS 90 / 10

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
EN	CuZn10
DIN	CW501L
UNS	C22000
BS	CZ101

CuZn10 has very good cold forming properties and is well suited for e.g. coinage, beating, embossing. This alloy has a higher strength as pure copper. It has good welding and brazing properties as well as a good corrosion resistant and is not fragile to stress corrosion and dezincification. CuZn10 is principally used in jewelry, metal goods, and watch industry and in electronic industry for installation parts. We produce qualities with grain sizes below 5 mm if needed.

TYPICAL USES:

Architecture: Weather Stripping, Screen Cloth, Ornamental Trim, Etching Bronze, Grill Work. Builders Hardware: Kick Plates, Hardware. Consumer: Housing for Lipstick Compacts, Costume Jewelry, Caskets, Ball Point Pens. Electrical: Wave Guides, Rotor Bar-AC Motors, Cable Warp. Fasteners: Screw Shells, Bolts, Line Clamps, Rivets. Industrial: Base for Vitreous Enamel, Escutcheons, Flexible Tube, Studs. Marine: Marine Hardware. Ordnance: Small Arms Cartridges, Artillery Projectile Rotating Bands, Press Fit, Primer Caps. Plumbing: Plumbers Brass Goods Typical Applications: Jewelry and metal good, Components for the electrical industry, Lead frames.

CHEMICAL COMPOSITION

	Cu	Pb	Fe	Zn
Min/Max	89.0-91.0	0.05	0.05	Rem
Nominal	90.0	-	-	10.0

PHYSICAL PROPERTIES

Density	0.318 lb/in ³ at 68 F
Electrical Conductivity	44 %IACS @ 68 F
Thermal Conductivity	109 Btu • ft/(hr • ft ² •°F)at 68F

MECHANICAL PROPERTIES

Temper	Tensile strength Rm	Yield strength Rp0.2 nominal	Elon gation 2" nominal	Hardness nominal HR30T HV	min bend ratio 90°		min. bend ratio 180°	
	[ksi] [MPa]	[ksi] [MPa]	[%]		GW	BW	GW	BW
Soft	36-42 248-290	12 83	47		0	0	0	0
H02	47-57 324-393	47 324	12	57	0	0	1.0	1.0
H04	57-66 393-455	58 400	4	66	0	1.0	1.5	3.0
H06	64-72 441-497	63 435	4	68	1.0	2.0	1.5	
H08	69-77 476-531	68 469	1	69	1.5		2.0	
H10	72-80 497-552	70 483	1	70	1.5		3.0	

SIZES AVAILABLE :

ROUND RODS/BARS
HEX
SQUARE
FLAT
BILLETS
Tube

1 mm To 100 mm
5 mm To 60mm
5 mm To 60mm
5 mm Min Thickness and max Width 120mm
Up to 200 mm
9.5 mm To 76.2 mm

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