



## RED BRASS 85 / 15

### EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
EN	CuZn15
DIN	CW502L
UNS	C23000
BS	CZ102

C23000 brass is the most durable of all metals for commercial water pipe in the practical price range. Excellent for its resistance to dezincification and season cracking for which the high copper brasses are known. Moderate strength and good retention of spring properties. Specified for underground service lines since it offers greatest corrosion resistance to all types of portable waters. Applications for C23000 brass include costume jewelry, fire hose couplings, zippers, and condenser and heat exchanger tubes. Popular as an outdoor metal and has found for itself a very important place in modern architecture. also known as Nordic Brass. The EN equivalent for this alloy is CuZn15.

### TYPICAL USES:

Architecture: etching parts, trim, weather strip, Builders Hardware: kick plates, Consumer: badges, coinage, compacts, costume jewelry, dials, fire extinguisher cases, lipstick containers, medallions, nameplates, plaques, rouge boxes, tokens, zippers, Electrical: conduit, rotor bars (AC motors), screw shells, sockets Fasteners: eyelets, fasteners, Industrial: condenser tubes, fire extinguishers, flexible metal hose, heat exchanger shells, heat exchangers, pickling crates, pump cylinder liners, radiator cores, tags, tubing for heat exchangers, tubing for instrumentation, Other fire hose couplings Plumbing fittings, j-bends, pipe, pipe nipples, pipe service lines, pump lines, service lines, traps

### CHEMICAL COMPOSITION

	Cu	Pb	Fe	Zn
Min/Max	84.0-86.0	0.05	0.05	Rem
Nominal	85.0	-	-	5.0

### PHYSICAL PROPERTIES

Density	0.316 lb/in <sup>3</sup> at 68 F
Electrical Conductivity	37 %IACS @ 68 F
Thermal Conductivity	92 Btu Â· ft/(hr Â· ft <sup>2</sup> Â·oF)at 68F

### MECHANICAL PROPERTIES

Temper	Tensile Strength Rm [ksi] [MPa]	Yield Strength Rp0.2 nominal [ksi] [MPa]	Elongation 2" nominal [%]	Hard-ness Nominal HR30T HV	Min bend ratio 90°		Min. bend ratio 180°	
					GW	BW	GW	BW
Soft	39-47 269-324	13 90	45		0	0	0	0
H02	51-61 352-421	49 338	18	105	0	0	0.5	1.5
H04	63-72 435-497	62 428	7	135	0	1.5	2.0	4.0
H06	72-80 497-552	69 476	4	150	1.5		2.5	
H08	78-86 538-593	73 504	3	160	2.5		4.0	
H10	82-90 566-621	76 524	1	170				

### 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 76.20 mm

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