

Brass

Ms90b (C22000)

Material Designation *

UNS	C22000
EN	CuZn10 (CW 501 L)
JIS	C2200
GB	H90

Chemical Composition

Cu	89-91	%
Zn	Balance	%



Characteristics

It has good mechanical properties and pressure processing properties, good corrosion resistance and good surface treatment properties. It can be gold-plated and enamel-coated.

Typical Applications

It can be used for all kinds of lifting and bending parts, such as pin, rivet, washer, nut, pipe, barometer, screen, radiator parts, water tank belt, water supply and drainage pipe, resistance cap, medal and bimetal parts.

Physical Properties

Density ^①	8.8	g/cm ³
Electrical conductivity ^①	44	%IACS
Thermal conductivity ^①	188.8	W/(m·K)
Coefficient of thermal expansion ^②	17.7	10 ⁻⁶ /K
Modulus of elasticity	127	GPa

Note^①: Temperature for testing is 20°C.

Note^②: Temperature range for testing is 20-300°C.

Fabrication Properties

Cold workability	Excellent
Hot workability	Good
Brazing	Excellent
Machinability Compared with C36000	20%

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Mechanical Properties

Diameter	Temper	Tensile Strength	Yield Strength	Elongation
mm		MPa min.	MPa	% min.
3 < Φ ≤ 12	H02	385	260	--
12 < Φ ≤ 18	H02	--	--	--
25 < Φ ≤ 50	H02	--	--	--
50 < Φ ≤ 80	H02	--	--	--
3 < Φ ≤ 12	H04	485	360	--
12 < Φ ≤ 18	H04	--	--	--
25 < Φ ≤ 50	H04	--	--	--

Tolerance and Delivery Form

Diameter	Standard coil weights	Tolerance ^③	Coil ID
mm	kg	mm	mm
0.1 < Φ ≤ 0.3	1-5	0.01	Spool packing
0.5 < Φ ≤ 0.8	5-12	0.01	160-200
0.8 < Φ ≤ 1.1	15-25	0.02	270-300
1.1 < Φ ≤ 1.6	18-30	0.02	260-300
1.6 < Φ ≤ 2.5	25-40	0.03	320-350
2.5 < Φ ≤ 4.0	30-45	0.03	370-400
4.0 < Φ ≤ 6.5	45-60	0.04	370-400
6.5 < Φ ≤ 10.0	200-400	0.04	1000-1200
8.0 < Φ ≤ 12.0	200-400	0.05	1200-1400

Note^③: The tolerances listed in the table are specified as all plus or all minus. When tolerances are specified as plus and minus (±), half the values given.

*Composition UNS
 Conductivity UNS
 Mechanical Properties For reference only, measured at room temperature, 68°F(20°C).
 Fabrication Properties UNS, Machinability for reference only.
 Other Physical Properties For reference only

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