



ADMIRALTY BRASS

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuZn28Sn1
European	CuZn28Sn1As
BS	CZ 111
JIS	C 4430
Russian	L62-1

SB 111 C44300 copper based alloy is ideal for heat exchanger tubes. Normally made to order to meet engineering requirements, you will find this alloy often times used in oil and gas applications that also require its non corrosive properties.

TYPICAL APPLICATIONS:

INDUSTRIAL: Evaporator Tubing, Heat Exchanger Tubing, Condenser Tube Plates, Distiller Tubes, Oil Well Pump Liner, Ferrules, Bourdon Tubes, Condenser Tubes

CHEMICAL COMPOSITION

	As	Cu	Fe	Pb	Sn	Zn
Min/Max	0.02 - 0.06	70.0 - 73.0	0.06	0.07	0.8 - 1.2	Rem
Nominals	0.0400	71.0000	-	-	1.0000	28.0000

PHYSICAL PROPERTIES

Coefficient of Thermal Expansion	11.2 • 10 ⁻⁶ per oF (68-572 F)
Density	0.308 lb/in ³ @ 68 F
Electrical Conductivity	25 %IACS @ 68 F
Electrical Resistivity	41.5 ohms-cmil/ft @ 68 F
Melting Point Liquid US	1720 F
Melting Point Solid US	1650 F
Modulus of Elasticity in Tension	16000 ksi
Modulus of Rigidity	6000 ksi
Specific Gravity	8.53
Specific Heat Capacity	0.09 Btu/lb/°F @ 68 F
Thermal Conductivity	64.0 Btu • ft/(hr • ft ² • °F) @ 68 F

材料名称 Material Designation	相应牌号 Corresponding Material Symbol				
	GB/T 8890	ASTM B111	BS2871	JIS H3300	DIN1785
白铜 Copper-Nickel	BFe10-1-1	C70600	CN102	C7060	CuNi10Fe1Mn
	BFe30-1-1	C71500	CN107	C7150	CuNi30Mn1Fe
	(BFe30-2-2)	C71640	CN108	C7164	CuNi30Fe2 Mn2
	(BFe5-1.5-0.5)	C70400	-	-	-
	B7	-	-	-	-
铝黄铜 Aluminum Brass	HAL77-2	C68700	CZ110	C6870	CuZn20AL2
锡黄铜 Admiralty Brass	HSn70-1	C44300	CZ111	C4430	CuZn28Sn1
加砷黄铜 Boric Brass	HSn70-1B	-	-	-	-
	HSn70-1AB	-	-	-	-
加砷黄铜 Arsenical Brass	H68A	-	CZ126	-	-
黄铜 BRASS TUBE	H65 / H63	C28000/C27200	CZ108	C2800/C2700	CuZn36/CuZn37

外径 OD (mm)	壁厚 WT(mm)						
	0.5-1.0	1.0-1.5	1.5-2.5	2.5-4.0	4.0-6.0	6.0-10	10-15
> 5 ~ 10	○	○	○				
> 10 ~ 16	○	○	○	○			
> 16 ~ 25	○	○	○	○			
> 25 ~ 35	○	○	○	○	○		
> 35 ~ 50	○	○	○	○	○	○	○
> 50 ~ 65		○	○	○	○	○	○
> 65 ~ 80			○	○	○	○	○
长度 Length	最长 25m(From 0.5m to 25m)						
执行标准 Standard	GB/T8890	ASTM B111	BS 2871	EN12451	JIS H3300		