



## ADMIRALTY BRASS

### EQUIVALENT SPECIFICATIONS

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

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 <sup>-6</sup> per oF (68-572 F)
Density	0.308 lb/in <sup>3</sup> @ 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 <sup>2</sup> • °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

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