NWB®

High Performance Bearing Technology

C44300 ADMIRALTY BRASS



This 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.

Alternative Specifications

ASTM B-111, B-135, B-171, B-359, B-432, B-543
ASME SB-111, SB-171, SB-359, SB-543

Physical Properties

Melting Point - Liquidus	1720 F
Melting Point - Solidus	1650 F
Density	0.308 lb/in^3 at 68 F
Specific Gravity	8.53
Electrical Resistivity	41.5 ohms-cmil/ft at 68 F
Electrical Conductivity	25 %IACS at 68 F
Thermal Conductivity	64.0 Btu · ft/(hr · ft2·°F) at 68F
Coefficient of Thermal Expansion	11.2 ·10^{-6} per °F (68-572 F)
Modulus of Elasticity in Tension	16000 ksi
Modulus of Rigidity	6000 ksi
Machinability Rating	30%

Typical Uses

Industrial

Evaporator Tubing, Heat Exchanger Tubing, Condenser Tube Plates, Distiller Tubes, Oil Well Pump Liners, Ferrules, Pump Barrel Liners, Condenser Tubes

Plumbing

Strainers

Room Temp Tensile & Hardness Data

TEMPER	SECTION SIZE (INCHES)	TENSILE (KSI) MIN	YIELD (KSI) MIN	ELONGATION IN HD MIN	BRINELL (3000 KG)
As Extruded	3” O.D.	53	22	65	-

Chemical Composition

	Cu	As	Fe	Pb	Sn(1)	Zn
min/max	70.0-73.0	.20-.06	.06	.07	.8-1.2	Rem.
nominal	71.0	.04	-	-	1.0	28.0

(1) For tubular products, the minimum Sn content may be .9%.
NOTE: Cu + (sum of named elements) = 99.6% min

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