Copper C68700

A Copper Zinc Alloy containing Aluminum and small amount of Arsenic which is added as an inhibitor against dezincification. Inhibited Aluminum brass resists the action of high velocity salt and brackish water and is commonly used for condensor tubes. The outstanding characteristics of aluminum brass is the high resistance to impingement attack. Tubes of this alloy are recommended for use in marine and land power stations where cooling water velocities are high and where inhibited admiralty brass has failed from impingement.

TYPICAL APPLICATIONS:

Condenser Tube, Evaporator Tubes, Ferrules, Distiller Tubes, Heat Exchanger Tubes

CHEMICAL COMPOSITION

	Al	As	Cu	Fe	Pb	Zn
Min/Max	1.8 - 2.5	0.02 - 0.06	76.0 - 79.0	0.06	0.07	Rem
Nominals	2.0000	0.0400	77.5000	-	-	20.5000
PHYSICAL PROPERTIES						
Coefficient of Thermal Expansion				10.3 • 10-6 per oF (68-572 F)		
Density				0.301 lb/in3 at 68 F		
Electrical Conductivity				23 %IACS @ 68 F		
Electrical Resistivity				45.1 ohms-cmil/ft @ 68 F		
Melting Point – Liquidus				1780 F		
Melting Point - Solidus				1710 F		
Modulas of Elasticity in Tension				16000 ksi		
Modulus of Rigidity				6000 ksi		
Specific Gravity				8.33		
Specific Heat Capacity				0.09 Btu/lb/oF at 68 F		
Thermal Conductivity				58.0 Btu • ft/(hr • ft2 • oF)at 68F		

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