



C48600

DEZINCIFICATION RESISTANT FORGING BRASS

EQUIVALENT SPECIFICATIONS

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

Naval Brasses are nominally composed of 60% copper, 39.2% zinc and 0.8% tin. As are typical of brass alloys. Naval brasses have good strength and rigidity. By substituting tin for an equal quantity of zinc, a high corrosion resistance to seawater is achieved. The addition of tin also gives the C486 alloys an inherent resistance to dezincification, thereby further inhibiting the impingement by seawater at higher than normal temperatures. The alloys are also noted for its resistance to wear, fatigue, galling, and stress corrosion cracking.

CHEMICAL COMPOSITION

	Cu	Pb	Zn	As	Sn
Max/Min	59.0 - 62.0	1.0-2.5	Rem	0.02-0.25	0.30-1.5
Nominal	60.5	1.7	-	0.13	0.9

PHYSICAL PROPERTIES

Melting Point – Liquidus °F	1670 F
Melting Point – Solidus °F	1630 F
Density lb./cu in. at 68°F	0.306 lb/in3 at 68 F
Specific Gravity	8.470
Electrical Conductivity*% IACS at 68°F	26
Thermal Conductivity Btu/ sq. ft/ ft.Hr/ °F at 68°F	67
Coefficient of Thermal Expansion 68-572 10^{-6} per °F (68 – 572°F)	11.3
Specific Heat Capacity Btu/ lb. /°F at 68°F	8.470
Modulus of Elasticity in Tension (ksi)	5600

SIZES AVAILABLE:

ROUND RODS	1.2 mm to 250 mm
HEX	5 mm to 65 mm
SQUARE	4 mm to 60 mm
FLAT	4 mm Min Thickness and max Width 120 mm
BILLETS	Up to 200 mm
INGOTS	As per Specification

Regd. Office & Works:
217/218 Phase - II Okha Rajkot Road, Dared, Jamnagar - 361 004. INDIA
Tel.: +91 - 288 - 2730118 | Mobile: +91 - 9328105172 mail@shree-extrusion.com | www.shree-extrusion.com



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