Metal Alloys Corporation

METALCO

DEZINCIFICATION RESISTANT FORGING BRASS

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuZn28Sn1
Europen	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	As	Pb	Sn	Zn
Min/Max	59.0 - 62.0	0.02-0.25	1.0-2.5	0.30 - 1.5	Rem
Nominal	60.5	0.13	1.7	0.9	-

PHYSICAL PROPERTIES

Melting Point - Liquidus°F	1645
Melting Point - Solidus°F	1635
Densitylb/cu in. at 68°F	0.304
Specific Gravity	8.42
Electrical Conductivity% IACS at 68°F	25
Coefficient of Thermal Expansion 68-57210^{-6} per °F (68 – 572°F)	13
Modulus of Elasticity in Tensionksi	14600

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

Regd. Office & Plant
Plot No. 6 & 7, Village: Lakhabaval, Post: Khodiyar Colony, Jamnagar - 361006.
Tel.: +91-288-2889251 / 52, Fax: +91-288-2889223, Cell: +91-9924443396
Email: info@metalalloyscorp.com • web: www.metalalloyscorp.com

STAR EXPORT HOUSE RECOGNISED BY GOVT. OF INDIA

EIL ENGINEERS INDIA LIMITED (A Govt. of India Undertaking)

TÜV SÜD ISO 9001

PED CERTIFIED