

COPPER AS-1567 -464, C46400 (NAVAL BRASS)

WROUGHT PRODUCT, EXTRUDED ROD & BAR



ABOUT

A Naval Brass for Marine atmosphere applications only. Not suitable for immersed sea water applications.

EQUIVALENT TO

Britain	BS-22874 – CZ112
USA	ASTM -B124-C46400
Japan	JIS- H-3250-C4622
Germany	DIN17660-CuZn39Sn

APPLICATIONS

- Marine and Rural parts requiring excellent corrosion resistance.

Nominal Composition	
Copper %	62.00
Lead %	---
Tin %	1.25
Zinc %	36.75

Typical Mechanical Properties		Temper: Drawn		
		Up to 13 mm	13 to 50 mm	Over 50 mm
	Size			
Tensile	MPa	465	420	370
0.2% Proof Stress	MPa	250	200	155
Elongation % (5.65)		25	35	45
Hardness	HV	150	125	100
Shear Strength	MPa	300	280	250

Physical Properties			Corrosion Resistance	
Melting Point °C	900		Rural Atmosphere	Excellent
Density kg/m ³	8410		Industrial Atmosphere	Good
Electrical Conductivity	% IACS	24	Marine Atmosphere	Excellent
Modulus of Elasticity	MPa	103000	Sea Water	Fair
			Drinking Water	Good-Excellent
Fabrication Data			Joining	
Machinability (brass = 100%)	30 %		Oxy- Acetylene welding	Good
Riveting & Peening	Fair- Good		Coated Metal Arc Welding	Not Recommended
Thread Rolling	Good		Carbon Arc Welding	Fair
Cold Heading	Fair		Gas Shielded Arc Welding (Tig & Mig)	Fair
Bending (cold)	Good		Soft Soldering	Excellent
Hot Forging	Good		Silver Soldering	Good
Hot Forging Temp °C	725			
Annealing °C	570			
Stress Relieving °C	275			