

Product Information Sheet

ISSUE B

ALLOY 464

A. W. Fraser Alloy 464 is a standard American type naval brass conforming to the requirements of ASTM B21 alloy C46400.

464 has been developed, with the deliberate addition of tin, to give improved resistance to corrosion and dezincification, particularly in salt water, and moderate ductility.

The composition of A. W. Fraser alloy 464 is strictly controlled as are the extrusion and finishing operations to achieve a constant standard of quality, properties and structure. All extrusions are manufactured from continuous cast billet stock ensuring uniform dispersion of tin particles and freedom from porosity.

Alloy 464 is susceptible to dezincification under certain conditions and is classified a category III alloy.

ALLOY 464 - NAVAL BRASS

SUMMARY OF PROPERTIES

Chemical Composition - percent [Typical]

Element		
Copper	Cu	61.0
Tin	Sn	0.8
Lead	Pb	0.1
Iron	Fe	0.1
Zinc	Zn	Balance
Total Impurities	0.4 maximum	

Mechanical Properties [Typical]

Yield Strength
Ultimate Tensile Strength
Elongation
Typical Hardness
Specific Gravity
Machinability
Cold Working
Hot Working

Drawn

140 MPa (20,000 psi)
380 MPa (55,000 psi)
25%
110 VPN
8.4
Moderate
Fair
Good

Comparative Specifications

BS2874 - CZ112; AS1567 - C46400; UNS C46400; ASTM B21 - C46400, JIS 3250 C4641B