



James Coppel Lee

Naval Brass AS-1565 Grade C46400

CONTINUOUS CAST ROD, HOLLOW, PLATE

ABOUT

C464, is a Naval Brass, suitable for rural and Industrial applications.

C464 has excellent corrosion and dezincification properties in a marine atmosphere.

C464 has good hot forging properties

EQUIVALENT / or NEAR TO

Britain BS2874 -CZ112

USA

Japan

Germany CuZn38Sn1*

NOMINAL CHEMICAL ANALYSIS

| CHEMICAL COMPOSITION (Maximum % Unless Otherwise Listed) | | | | | | | | | OTHER ELEMENTS (*NOTES) |
|---|---------------|------------|--------------|------------|-----------|------------|------------|---------------|--|
| Copper Cu | Tin Sn | Zinc Zn | Nickel Ni | Lead Pb | Phos P | Alum Al | Iron Fe | Mang Mn | |
| 61.0- 63.5 | 0.80- 1.40 | REM | | 0.20 | | | 0.20 | 0.10- 1.50 | * Zinc nominal 39.2 % *Total impurities 0.4 maximum |

MECHANICAL PROPERTIES / Typical

| TENSILE (MPa) | | ELONGATION (5-65/50% MIN.) | | .2% PROOF (MPa) | | HARDNESS (VPN) | |
|---------------|-------------|-------------------------------|-------------|-----------------|-------------|----------------|-------------|
| Continuous | Centrifugal | Continuous | Centrifugal | Continuous | Centrifugal | Continuous | Centrifugal |
| 380 | | 25 | | 140 | | 110 | |

| | |
|---|--------------------------------------|
| Compressive Strength 0.1% Permanent Set | |
| Specific Gravity | 8.4 |
| Machinability Rating (Free Machining Brass=100) | 30 |
| Max. Operating Temperature | |
| Stress Relieving Temperature | 260oC (500oF) |
| Time at Temperature | 1 hour per 25mm of section thickness |

ADVANTAGES OF CONTINUOUS CAST

Reduced Machining allowance, excellent mechanical properties. Complete freedom from gas and porosity, ensuring very good pressure tightness. 3 – 3.5 metre feed stock for machining

APPLICATIONS

- Bushes and Bearings
- Baffles and Tubesheets
- Valve Stems
- Mould Plates
- Marine Components
- Irrigation Parts
- Wear Rings and Bars