

TECHNICAL SPECIFICATION OF
ROLLED NAVAL BRASS TUBE PLATE

1. Material

Rolled Naval Brass Tube Plates to SB-171 C46400; 2019 machined on both face and outer periphery.

2. Application

Use as tube plate for Oil Cooler.

3. Size & Quantity

As per Indent / Enquiry.

4. Condition & Delivery

Hot rolled / Cold rolled & finished, machined on both face.

(In case of import face machining not required).

5. Dimensions & Tolerance

Thickness : -0.0, +0.8 mm.

Length (including diagonal distance) / Width : ± 1.0 mm.

Flatness across corner & length/width : 1.0 mm in Total (max.).

6. Freedom from defects

The plates shall be clean, smooth, sound & free from seams, laminations, porosity, crack & other injurious defects. The texture shall be uniform in color and grains throughout.

7. Chemical Composition & Mechanical Properties

As per SB-171 C46400; 2019.

8. Check List - Nil

9. Inspection at supplier's works

M/s Lloyds/BV/TUV/SGS in case of import, BHEL TPIA, in case of indigenous.

10. Testing

Following tests shall be conducted as per material specification SB-171 C46400; 2019 on test samples from finished tube plates.

- (i) (a) Chemical (b) Mechanical (c) Dimensional check report (i.e Length, width, diagonal distance, thickness, flatness etc).

(ii) Plates to be ultrasonically tested as per SA 435 with 100% scanning. Any discontinuity indication causing a total loss of back reflection which can not be contained within a circle of diameter 3 inch or one half of the plate thickness whichever is less is not acceptable.

11. Each tube plate to be identified with specific marking nos. **TP-9753 to TP-9792**. Marking should preferably be done with a suitable lasting ink or paint. Hard stamping on plate surface is not allowed. However punching on edges of plates can be done.

12. **Packing**

Tube plates shall be packed suitably in wooden boxes to avoid any damage during handling and transit. Each tube plate shall be separated from each other by suitable separators so as to avoid rubbing during handling/transit.

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