

**TECHNICAL SPECIFICATION OF
ROLLED NAVAL BRASS TUBE PLATE**

- 1. Material**
Rolled Naval Brass Tube Plates to SB-171 C46400; 2019.
- 2. Application**
Use as tube plate For Coolers.
- 3. Size & Quantity**
As per Indent / Enquiry.
- 4. Condition & Deliver**
Hot rolled / Cold rolled & finished
Flatness across complete Plate : +/- 1.0 mm.
- 5. Dimensions & Tolerance**
Thickness : -0.0, +1.5 mm.
Length / Width : -0.0, +2.0 mm.
- 6. Freedom from defects**
The plates shall be clean, smooth, sound & free from seams, laminations, porosity, crack & other injurious defects.
- 7. Chemical Composition & Mechanical Properties**
As per SB-171 C46400; 2019.
- 8. Check List**
The supplier shall fill up the enclosed check list to PI. 241101093 & submit the same along with offer.
- 9. Inspection at supplier's works**
M/S LRIS / 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.
 - (ii) Plates to be ultrasonically tested as per SA 435 with 100 % scanning. Any discontinuity indication causing a total loss of back reflection which cannot be contained within a circle of diameter 3 inch or one half of the plate thickness whichever is less is not acceptable.
- 11. Tube plate to be identified by TP-218935 & TP-218946 .**
Marking should preferably be 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.

Note Both the surfaces of the plate including outer periphery should be of sufficient finish meeting all above criteria including dimensional tolerance so that same can be used as it is without any machining.

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