# **Material:** ASTM B100 C61300

## Standard Specification for Wrought Copper-Alloy Bearing and Expansion Plates and Sheets for Bridge and Other Structural Use

**Group:** *Non-Ferrous Copper Alloy*

**Sub Group:** *ASTM B100 Wrought Copper-Alloy Bearing and Expansion Plates and Sheets for Bridge and Other* **Structural Use**

**Application:** *Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade*

**Belongs to the Industry:** *Plate and Sheet*

| Chemical Composition | | |
|---|---|---|
| Aluminium | Al % | 6.000 - 7.500 |
| Iron | Fe % | 2.000 - 3.000 |
| Manganese | Mn % | 0.200 max. |
| Ni + Co | Ni% + Co% | 0.150 max. |
| Phosphorus | P % | 0.015 max. |
| Lead | Pb % | 0.010 max. |
| Silicon | Si % | 0.100 max. |
| Tin | Sn % | 0.200 - 0.500 |
| Zinc | Zn % | 0.100 max. |
| Copper | Cu % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As Drawn or Stress Relieving |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 415 min. |
| Yield Strength in Mpa | 170 min. |
| Elongation in % | 10 min. |
| Reduction of Area in % | - |
| Hardness in HB | 130 min. |
| Impact in Joule | - |

| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| C61300 | UNS | USA | Rod, Bar, Tube and Shapes |
| B111 C61300 | ASTM | USA | Tubes |
| B169 C61300 | ASTM | USA | Sheet, Strip and Bar |
| B171 C61300 | ASTM | USA | Plate and Sheet |
| F467 C61300 | ASTM | USA | Bolts, Screws and Studs |
| SB-111 C61300 | ASME | USA | Tubes |
| SB-150 C61300 | ASME | USA | Rod, Bar and Shapes |



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