

## Material: ASME SB-171 C36500

### Standard Specification for Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers and Heat Exchangers

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** ASME SB-171 Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers and Heat Exchangers

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

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

| Chemical Composition |      |                 | Heat Treatment                        |           |
|----------------------|------|-----------------|---------------------------------------|-----------|
| Iron                 | Fe % | 0.150 max.      | Normalizing or Annealing or Tempering |           |
| Lead                 | Pb % | 0.250 - 0.700   |                                       |           |
| Tin                  | Sn % | 0.250 max.      |                                       |           |
| Copper               | Cu % | 58.000 - 61.000 |                                       |           |
| Zinc                 | Zn % | Balance         |                                       |           |
| -                    | -    | -               |                                       |           |
| -                    | -    | -               |                                       |           |
| -                    | -    | -               |                                       |           |
| -                    | -    | -               |                                       |           |
| -                    | -    | -               |                                       |           |
|                      |      |                 | Mechanical Properties                 |           |
|                      |      |                 | Tensile Strength in Mpa               | 275 - 345 |
|                      |      |                 | Yield Strength in Mpa                 | 85 - 140  |
|                      |      |                 | Elongation in %                       | 35 min.   |
|                      |      |                 | Reduction of Area in %                | -         |
|                      |      |                 | Hardness in BHN                       | -         |
|                      |      |                 | Impact in Joule                       | -         |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| B171 C36500           | ASTM     | USA       | Plate and Sheet              |
| B283 C36500           | ASTM     | USA       | Forging                      |
| SB-283 C36500         | ASME     | USA       | Forging                      |
| 365                   | AS       | Australia | Forging                      |
| C36500                | AS       | Australia | Forging                      |
| C36500                | UNS      | USA       | Rod, Bar and Shapes          |
| B124 C36500           | ASTM     | USA       | Rod, Bar and Shapes          |

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