

# Material: SAE 430B

## Standard Specification for Cast Copper Alloys

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** SAE J462 Cast Copper Alloys

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

**Belongs to the Industry:** Casting

| Chemical Composition |      |                 | Heat Treatment  |  |
|----------------------|------|-----------------|---|--|
| Aluminium            | Al % | 3.000 - 7.500   | As-Cast   |  |
| Iron                 | Fe % | 2.000 - 4.000   |   |  |
| Manganese            | Mn % | 2.500 - 5.000   |   |  |
| Nickel               | Ni % | 0.500 max.      |   |  |
| Lead                 | Pb % | 0.200 max.      |   |  |
| Tin                  | Sn % | 0.200 max.      |   |  |
| Copper               | Cu % | 60.000 - 68.000 |   |  |
| Zinc                 | Zn % | Balance         |   |  |
| -                    | -    | -               | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 758 min.<br>Yield Strength in Mpa 414 min.<br>Elongation in % 12 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule - |  |
| -                    | -    | -               |   |  |
| -                    | -    | -               |   |  |
| -                    | -    | -               |   |  |
| -                    | -    | -               |   |  |
| -                    | -    | -               |   |  |
| -                    | -    | -               |   |  |
| -                    | -    | -               |   |  |

| Cross Reference Table |          |           |                              |
|-----------------------|----------|-----------|------------------------------|
| Material              | Standard | Country   | Grade Belong to the Industry |
| C86300                | UNS      | USA       | Rod, Bar, Tube and Shapes    |
| B271 C86300           | ASTM     | USA       | Casting                      |
| B30 C86300            | ASTM     | USA       | Ingot and Casting            |
| CA863                 | SAE      | USA       | Casting                      |
| SB-505 C86300         | ASME     | USA       | Casting                      |
| SB-584 C86300         | ASME     | USA       | Casting                      |
| C86300                | AS       | Australia | Casting                      |

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