

## Material: SAE J462 C95300

### 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 |      |                |
|----------------------|------|----------------|
| Aluminium            | Al % | 9.000 - 11.000 |
| Iron                 | Fe % | 0.800 - 1.500  |
| Copper               | Cu % | 86.000 min.    |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |
| -                    | -    | -              |

| Heat Treatment                             |
|--------------------------------------------|
| As-Cast or Solution Annealing or Annealing |

| Mechanical Properties   |           |
|-------------------------|-----------|
| Tensile Strength in Mpa | 450 - 550 |
| Yield Strength in Mpa   | 170 - 275 |
| Elongation in %         | 12 - 25   |
| Reduction of Area in %  | -         |
| Hardness in BHN         | -         |
| Impact in Joule         | -         |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| C95300                | UNS      | USA     | Rod, Bar, Tube and Shapes    |
| B148 C95300           | ASTM     | USA     | Casting                      |
| B148 Grade B          | ASTM     | USA     | Casting                      |
| SB-148 C95300         | ASME     | USA     | Casting                      |
| SB-148 Grade B        | ASME     | USA     | Casting                      |
| SB-505 C95300         | ASME     | USA     | Casting                      |
| CA953                 | SAE      | USA     | Casting                      |

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