

# Material: SAE AMS 4635H 4635

## Standard Specification for Aluminum Bronze Bars, Rods and forgings

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** SAE AMS 4635H Aluminum Bronze Bars, Rods and forgings

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

**Belongs to the Industry:** Bars, Rods and forgings

| Chemical Composition |           |                |
|----------------------|-----------|----------------|
| Aluminium            | Al %      | 8.500 - 10.000 |
| Iron                 | Fe %      | 2.000 - 4.000  |
| Manganese            | Mn %      | 0.500 max.     |
| Ni + Co              | Ni% + Co% | 1.000 max.     |
| Silicon              | Si %      | 0.250 max.     |
| Tin                  | Sn %      | 0.600 max.     |
| Cu + Ag              | Cu% + Ag% | Balance        |
| -                    | -         | -              |
| -                    | -         | -              |
| -                    | -         | -              |
| -                    | -         | -              |
| -                    | -         | -              |
| -                    | -         | -              |
| -                    | -         | -              |
| -                    | -         | -              |
| -                    | -         | -              |
| -                    | -         | -              |

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

| Mechanical Properties   |           |
|-------------------------|-----------|
| Tensile Strength in Mpa | -         |
| Yield Strength in Mpa   | -         |
| Elongation in %         | -         |
| Reduction of Area in %  | -         |
| Hardness in HB          | 155 - 190 |
| Impact in Joule         | -         |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| C62300                | UNS      | USA     | Rod, Bar, Tube and Shapes    |
| B124 C62300           | ASTM     | USA     | Rod, Bar and Shapes          |
| B150 C62300           | ASTM     | USA     | Rod, Bar and Shapes          |
| SB-150 C62300         | ASME     | USA     | Rod, Bar and Shapes          |
| SB-283 C62300         | ASME     | USA     | Forging                      |
| CA623                 | SAE      | USA     | Casting                      |
| 87Cu-9Al-3Fe          | SAE      | USA     | Bars, Rods and forgings      |

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