



Material - SAE J462 CA863

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 % | 5.000 - 7.500 | As-Cast | |
| Iron | Fe % | 2.000 - 4.000 | | |
| Manganese | Mn % | 2.500 - 5.000 | | |
| Nickel | Ni % | 1.000 max. | | |
| Lead | Pb % | 0.200 max. | | |
| Tin | Sn % | 0.200 max. | | |
| Other | Ot% | 0.300 max. | | |
| Copper | Cu % | 60.000 - 66.000 | | |
| Zinc | Zn % | Balance | | |
| - | - | - | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 758 - 760 |
| - | - | - | Yield Strength in Mpa | 414 - 425 |
| - | - | - | Elongation in % | 22251 |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in HB | 217 - 269 |
| - | - | - | 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 |
| SAE 430B | SAE | USA | Casting |
| SB-505 C86300 | ASME | USA | Casting |
| SB-584 C86300 | ASME | USA | Casting |
| C86300 | AS | Australia | Casting |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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