

Material: ASTM B132-B

Standard Specification for Copper Alloy Sand Casting for General Applications

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B584 Copper Alloy Sand Casting for General Applications

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

Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|-----------|-----------------|
| Aluminium | Al % | 1.000 - 3.000 |
| Iron | Fe % | 1.000 - 3.000 |
| Manganese | Mn % | 1.000 - 3.500 |
| Ni + Co | Ni% + Co% | 1.000 max. |
| Lead | Pb % | 0.500 - 1.500 |
| Tin | Sn % | 1.500 max. |
| Zinc | Zn % | 30.000 - 38.000 |
| Copper | Cu % | 55.000 - 60.000 |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|----------------|
| As-Cast |

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 552 min. |
| Yield Strength in Mpa | 221 min. |
| Elongation in % | 15 min. |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| C86700 | UNS | USA | Rod, Bar, Tube and Shapes |
| B271 C86700 | ASTM | USA | Casting |
| B30 C86700 | ASTM | USA | Ingot and Casting |
| B584 C86700 | ASTM | USA | Casting |
| SB-584 C86700 | ASME | USA | Casting |
| - | - | - | - |
| - | - | - | - |

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