

Material: ASTM B30 C84400

Standard Specification for Copper Alloys Ingot and Casting

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B30 Copper Alloys Ingot and Casting

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

Belongs to the Industry: Ingot and Casting

| Chemical Composition | | |
|----------------------|-----------|-----------------|
| Aluminium | Al % | 0.005 max. |
| Iron | Fe % | 0.350 max. |
| Ni + Co | Ni% + Co% | 0.800 max. |
| Phosphorus | P % | 0.020 max. |
| Lead | Pb % | 6.300 - 7.700 |
| Sulphur | S % | 0.080 max. |
| Antimony | Sb % | 0.250 max. |
| Silicon | Si % | 0.005 max. |
| Tin | Sn % | 2.500 - 3.500 |
| Zinc | Zn % | 7.000 - 10.000 |
| Copper | Cu % | 79.000 - 82.000 |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 200 min. |
| Yield Strength in Mpa | 90 min. |
| Elongation in % | 18 min. |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| C84400 | UNS | USA | Rod, Bar, Tube and Shapes |
| B145-5A | ASTM | USA | Casting |
| B271 C84400 | ASTM | USA | Casting |
| B30 5A | ASTM | USA | Casting |
| B505 C84400 | ASTM | USA | Casting |
| SB-505 C84400 | ASME | USA | Casting |
| SB-584 C84400 | ASME | USA | Casting |

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