



Material - ASTM B271 Leaded Semi-Red Brass UNS C84400

Standard Specification for Copper-Base Alloy Centrifugal Castings

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B271 Copper-Base Alloy Centrifugal Castings

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

Grade Belongs to the Industry - Rod, Bar, Tube and Shapes

| Chemical Composition | | | Heat Treatment | |
|-------------------------|-----------|-----------------|----------------|--|
| Tin | Sn % | 2.300 - 3.500 | As-Cast | |
| Lead | Pb % | 6.000 - 8.000 | | |
| Zinc | Zn % | 7.000 - 10.000 | | |
| Iron | Fe % | 0.400 max. | | |
| Ni + Co | Ni% + Co% | 1.000 max. | | |
| Aluminium | Al % | 0.005 max. | | |
| Silicon | Si % | 0.005 max. | | |
| Antimony | Sb % | 0.250 max. | | |
| Sulphur | S % | 0.080 max. | | |
| Phosphorus | P % | 0.020 max. | | |
| Copper | Cu % | 78.000 - 82.000 | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| 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 |
| B145-5A | ASTM | USA | Casting |
| B271 C84400 | ASTM | USA | Casting |
| B30 5A | ASTM | USA | Casting |
| B30 C84400 | ASTM | USA | Casting |
| B505 C84400 | ASTM | USA | Casting |
| SB-505 C84400 | ASME | USA | Casting |
| SB-584 C84400 | ASME | USA | 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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