



Material - ASTM B505 Leaded Red Brass UNS C83800

Standard Specification for Copper Alloy Continuous Castings

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B505 / 505M Copper Alloys for Continuous 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 % | 3.300 - 4.200 | As-Cast | |
| Lead | Pb % | 5.000 - 7.000 | | |
| Zinc | Zn % | 5.000 - 8.000 | | |
| Ni + Cu | Ni% + Cu% | 1.000 max. | | |
| Iron | Fe % | 0.300 max. | | |
| Antimony | Sb % | 0.250 max. | | |
| Sulphur | S % | 0.080 max. | | |
| Phosphorus | P % | 1.500 max. | | |
| Aluminium | Al % | 0.005 max. | | |
| Silicon | Si % | 0.005 max. | | |
| Copper | Cu % | 82.000 - 83.800 | Mechanical Properties Tensile Strength in Mpa 207 min. Yield Strength in Mpa 97 min. Elongation in % 16 min. Reduction of Area in % - Hardness in BHN - Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| C83800 | SAE | USA | Casting |
| B145-4B | ASTM | USA | Casting |
| B30 C83800 | ASTM | USA | Casting |
| B505 C83800 | ASTM | USA | Casting |
| CA838 | SAE | USA | Casting |
| B584 C83800 | ASTM | USA | Casting |
| SB-505 C83800 | 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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.