



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SB-505 C96400

Standard Specification for Copper Alloy Continuous Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASME SB-505 Copper Alloy Continuous Casting

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|-----------|-----------------|---|--|
| Carbon | C % | 0.150 max. | As-Cast | |
| Iron | Fe % | 0.250 - 1.500 | | |
| Manganese | Mn % | 1.500 max. | | |
| Niobium | Nb % | 0.500 - 1.500 | | |
| Ni + Co | Ni% + Co% | 28.000 - 32.000 | | |
| Phosphorus | P % | 0.020 max. | | |
| Lead | Pb % | 0.010 max. | | |
| Sulphur | S % | 0.020 max. | | |
| Silicon | Si % | 0.500 max. | | |
| Copper | Cu % | 65.000 - 69.000 | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 448 min. Yield Strength in Mpa 241 min. Elongation in % 25 min. Reduction of Area in % - Hardness in BHN - Impact in Joule - | |
| - | - | - | | |
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| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| C96400 | UNS | USA | Rod, Bar, Tube and Shapes |
| B30 C96400 | ASTM | USA | Ingot and Casting |
| B369 C96400 | ASTM | USA | Casting |
| B505 C96400 | ASTM | 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.

ONE STOP SOLUTION FOR METAL PARTS