



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - KS D2320 CACIn803

### Standard Specification for Copper Alloys Ingot and Casting

Group - Non-Ferrous Copper Alloy

Sub Group - KS D2320 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 |      |                 | Heat Treatment          |          |
|----------------------|------|-----------------|-------------------------|----------|
| Aluminium            | Al % | 0.300 max.      | As-Cast                 |          |
| Iron                 | Fe % | 0.300 max.      |                         |          |
| Manganese            | Mn % | 0.200 max.      |                         |          |
| Lead                 | Pb % | 0.200 max.      |                         |          |
| Silicon              | Si % | 3.200 - 4.200   |                         |          |
| Zinc                 | Zn % | 13.000 - 15.000 |                         |          |
| Copper               | Cu % | 80.000 - 84.000 |                         |          |
| -                    | -    | -               |                         |          |
| -                    | -    | -               | Mechanical Properties   |          |
| -                    | -    | -               | Tensile Strength in Mpa | 345 min. |
| -                    | -    | -               | Yield Strength in Mpa   | 145 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 |
| C87400                | UNS      | USA     | Rod, Bar, Tube and Shapes    |
| B271 C87400           | ASTM     | USA     | Casting                      |
| B30 C87400            | ASTM     | USA     | Ingot and Casting            |
| B584 C87400           | ASTM     | USA     | Casting                      |
| SB-584 C87400         | ASME     | USA     | Casting                      |
| C87400                | SAE      | USA     | Casting                      |
| CA874                 | SAE      | 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](mailto: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**