



## Material - KS D2320 CACIn303

### Standard Specification for Copper Alloy Ingot for Casting

Group - Non-Ferrous Copper Alloy

Sub Group - KS CACIn203 Copper Alloy Ingot for Casting

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

Grade Belongs to the Industry - Casting

| Chemical Composition |      |                 | Heat Treatment          |          |
|----------------------|------|-----------------|-------------------------|----------|
| Aluminium            | Al % | 3.000 - 5.000   | As-Cast                 |          |
| Iron                 | Fe % | 2.000 - 4.000   |                         |          |
| Manganese            | Mn % | 2.500 - 5.000   |                         |          |
| NiCkel               | Ni % | 0.500 max.      |                         |          |
| Lead                 | Pb % | 0.200 max.      |                         |          |
| Tin                  | Sn % | 0.500 max.      |                         |          |
| Copper               | Cu % | 60.000 - 65.000 |                         |          |
| Zinc                 | Zn % | Balance         |                         |          |
| -                    | -    | -               |                         |          |
|                      |      |                 | Mechanical Properties   |          |
| -                    | -    | -               | Tensile Strength in Mpa | 621 min. |
| -                    | -    | -               | Yield Strength in Mpa   | 310 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 |
| C86200                | UNS      | USA     | Rod, Bar, Tube and Shapes    |
| B147-8B               | ASTM     | USA     | Casting                      |
| B271 C86200           | ASTM     | USA     | Casting                      |
| CA862                 | SAE      | USA     | Casting                      |
| SAE 430A              | SAE      | USA     | Casting                      |
| SB-505 C86200         | ASME     | USA     | Casting                      |
| SB-584 C86200         | 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](mailto:marketing@gravitycastindia.com)**

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