



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

## Material - ASTM B30 C93900

### Standard Specification for Copper Alloys Ingot and Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B30 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 %      | 0.005 max.      | As-Cast                 |          |
| Iron                 | Fe %      | 0.350 max.      |                         |          |
| Ni + Co              | Ni% + Co% | 0.800 max.      |                         |          |
| Phosphorus           | P %       | 0.050 max.      |                         |          |
| Lead                 | Pb %      | 14.000 - 17.700 |                         |          |
| Sulphur              | S %       | 0.080 max.      |                         |          |
| Antimony             | Sb %      | 0.500 max.      |                         |          |
| Silicon              | Si %      | 0.005 max.      |                         |          |
| Tin                  | Sn %      | 5.300 - 7.000   |                         |          |
| Zinc                 | Zn %      | 1.500 max.      |                         |          |
| Copper               | Cu %      | 76.500 - 79.500 |                         |          |
| -                    | -         | -               |                         |          |
| -                    | -         | -               |                         |          |
| -                    | -         | -               |                         |          |
| -                    | -         | -               |                         |          |
| -                    | -         | -               |                         |          |
|                      |           |                 | Mechanical Properties   |          |
|                      |           |                 | Tensile Strength in Mpa | 172 min. |
|                      |           |                 | Yield Strength in Mpa   | 110 min. |
|                      |           |                 | Elongation in %         | 5 min.   |
|                      |           |                 | Reduction of Area in %  | -        |
|                      |           |                 | Hardness in BHN         | -        |
|                      |           |                 | Impact in Joule         | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| C93900                | UNS      | USA     | Rod, Bar, Tube and Shapes    |
| B505 C93900           | ASTM     | USA     | Casting                      |
| SB-505 C93900         | 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)**

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.

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