



## Material - KS D6003 CuPb15Sn8

### Standard Specification for Copper Alloys White Metal

Group - Non-Ferrous Copper Alloy

Sub Group - KS D6003 Copper Alloys White Metal

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 % | 0.010 max.      | As-Cast                 |           |
| Iron                 | Fe % | 0.250 max.      |                         |           |
| Manganese            | Mn % | 0.200 max.      |                         |           |
| Nickel               | Ni % | 2.000 max.      |                         |           |
| Phosphorus           | P %  | 0.100 max.      |                         |           |
| Lead                 | Pb % | 13.000 - 17.000 |                         |           |
| Sulphur              | S %  | 0.100 max.      |                         |           |
| Antimony             | Sb % | 0.500 max.      |                         |           |
| Silicon              | Si % | 0.010 max.      |                         |           |
| Tin                  | Sn % | 7.000 - 9.000   |                         |           |
| Zinc                 | Zn % | 2.000 max.      | Mechanical Properties   |           |
| Copper               | Cu % | Balance         | Tensile Strength in Mpa | 170 - 220 |
| -                    | -    | -               | Yield Strength in Mpa   | 80 - 100  |
| -                    | -    | -               | Elongation in %         | 3 - 8     |
| -                    | -    | -               | Reduction of Area in %  | -         |
| -                    | -    | -               | Hardness in HB          | 60 - 250  |
| -                    | -    | -               | Impact in Joule         | -         |

| Cross Reference Table |          |               |                              |
|-----------------------|----------|---------------|------------------------------|
| Material              | Standard | Country       | Grade Belong to the Industry |
| LB 1                  | BS       | British       | Ingot and Casting            |
| CuPb15Sn8             | ISO      | International | Ingot and Casting            |
| CuPb15Sn8             | UNI      | Italy         | Ingot and 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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