



## Material - DIN SoMs58Pb

### Standard Specification for Copper and Copper Zinc Alloy Rod

Group - Non Ferrous Copper Alloys

Sub Group - DIN SoMs58Pb Copper and Copper Zinc Alloy Rod

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

Grade Belongs to the Industry - Rod

| Chemical Composition |      |                 | Heat Treatment                  |          |
|----------------------|------|-----------------|---------------------------------|----------|
| Aluminium            | Al % | 0.600 max.      | As Raw or Solution Heat Treated |          |
| Iron                 | Fe % | 0.500 max.      |                                 |          |
| Manganese            | Mn % | 0.400 - 1.800   |                                 |          |
| Nickel               | Ni % | 1.000 max.      |                                 |          |
| Lead                 | Pb % | 1.000 - 2.000   |                                 |          |
| Silicon              | Si % | 0.400 max.      |                                 |          |
| Tin                  | Sn % | 0.500 max.      |                                 |          |
| Other                | Ot % | 0.500 max.      |                                 |          |
| Copper               | Cu % | 57.000 - 59.000 | Mechanical Properties           |          |
| Zinc                 | Zn % | Balance         | Tensile Strength in Mpa         | 390 min. |
| -                    | -    | -               | Yield Strength in Mpa           | 150 min. |
| -                    | -    | -               | Elongation in %                 | 12 min.  |
| -                    | -    | -               | Reduction of Area in %          | -        |
| -                    | -    | -               | Hardness in BHN                 | 95 - 140 |
| -                    | -    | -               | Impact in Joule                 | -        |

| Cross Reference Table |          |                |                                |
|-----------------------|----------|----------------|--------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry   |
| CuZn40Mn1Pb1          | DIN      | Germany        | Rod                            |
| 2.058                 | DIN      | Germany        | Rod                            |
| CuZn40Mn1Pb           | DIN      | Germany        | Rod                            |
| CuZn40MnPb            | DIN      | Germany        | Rod                            |
| CU6                   | EN       | European Union | Rod, Bolt, Screw, Stud and Nut |
| CuZn40Mn1Pb1          | UNI      | Italy          | Rod                            |
| C37710                | UNS      | USA            | Rod                            |

**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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