



## Material - EN CuSn4Pb2P

### Standard Specification for Copper-Tin Alloy Rod

Group - Non Ferrous Copper Alloys

Sub Group - EN CuSn4Pb2P Copper-Tin Alloy Rod

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

Grade Belongs to the Industry - Rod

| Chemical Composition |      |               | Heat Treatment                  |           |
|----------------------|------|---------------|---------------------------------|-----------|
| Iron                 | Fe % | 0.100 max.    | As Raw or Solution Heat Treated |           |
| Nickel               | Ni % | 0.200 max.    |                                 |           |
| Phosphorus           | P %  | 0.200 - 0.400 |                                 |           |
| Lead                 | Pb % | 1.500 - 2.500 |                                 |           |
| Tin                  | Sn % | 3.500 - 4.500 |                                 |           |
| Zinc                 | Zn % | 0.300 max.    |                                 |           |
| Other                | Ot % | 0.200 max.    |                                 |           |
| Copper               | Cu % | Balance       |                                 |           |
| -                    | -    | -             | Mechanical Properties           |           |
| -                    | -    | -             | Tensile Strength in Mpa         | 430 min.  |
| -                    | -    | -             | Yield Strength in Mpa           | 220 min.  |
| -                    | -    | -             | Elongation in %                 | 8 min.    |
| -                    | -    | -             | Reduction of Area in %          | -         |
| -                    | -    | -             | Hardness in HV                  | 125 - 155 |
| -                    | -    | -             | Impact in Joule                 | -         |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| CuSn4Pb2P             | DIN      | Germany        | Rod                          |
| CW455K                | EN       | European Union | Rod                          |
| CuSn4Pb2P             | ONORM    | Australia      | Rod                          |
| CW455K                | ONORM    | Australia      | Rod                          |
| CuSn4Pb2P             | MSZ      | Hungary        | Rod                          |
| CW455K                | MSZ      | Hungary        | Rod                          |
| CW455K                | AFNOR NF | France         | 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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