

## Material: AFNOR NF CuSn5Pb1

### Standard Specification for Copper-Tin Alloy Rod

**Group:** Non Ferrous Copper Alloys

**Sub Group:** AFNOR NF CuSn5Pb1 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 %  | 0.010 - 0.400 |                                 |           |
| Lead                 | Pb % | 0.500 - 1.500 |                                 |           |
| 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         | 450 min.  |
| -                    | -    | -             | Yield Strength in Mpa           | 350 min.  |
| -                    | -    | -             | Elongation in %                 | 5 min.    |
| -                    | -    | -             | Reduction of Area in %          | -         |
| -                    | -    | -             | Hardness in BHN                 | 115 - 210 |
| -                    | -    | -             | Impact in Joule                 | -         |

| Cross Reference Table |          |          |                              |
|-----------------------|----------|----------|------------------------------|
| Material              | Standard | Country  | Grade Belong to the Industry |
| CuSn5Pb1              | DIN      | Germany  | Rod                          |
| C 5341 B              | JIS      | Japan    | Rod, Bar and Wire            |
| CW458K                | AFNOR NF | France   | Rod                          |
| CuSn5Pb1              | SFS      | Finland  | Rod                          |
| CW458K                | SFS      | Finland  | Rod                          |
| CuSn5Pb1              | BDS      | Bulgaria | Rod                          |
| CW458K                | BDS      | Bulgaria | Rod                          |

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