

## Material: DIN EN 12164 CuTeP (CW114C)

### Standard Specification for Copper and Copper Alloy Rod for Free Machining Purpose

**Group:** Non Ferrous Copper Alloys

**Sub Group:** DIN EN 12164 CuTeP Copper and Copper Alloy Rod for Free Machining Purpose

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

**Grade Belongs to the Industry:** Rod

| Chemical Composition |      |               | Heat Treatment                                                                                                                                                                                          |  |
|----------------------|------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Phosphorus           | P %  | 0.003 - 0.012 | As Raw or Solution Heat Treated                                                                                                                                                                         |  |
| Tellurium            | Te % | 0.400 - 0.700 |                                                                                                                                                                                                         |  |
| Other                | Ot % | 0.100 max.    |                                                                                                                                                                                                         |  |
| Copper               | Cu % | Balance       |                                                                                                                                                                                                         |  |
| -                    | -    | -             | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 250 min.<br>Yield Strength in Mpa 200 min.<br>Elongation in % 3 min.<br>Reduction of Area in % -<br>Hardness in HV 90 min.<br>Impact in Joule - |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| SF-CuTe               | DIN      | Germany        | Rod                          |
| CuTe(P)               | ISO      | International  | Rod                          |
| C 1100 W              | JIS      | Japan          | Rod                          |
| C 109                 | BS       | British        | Rod                          |
| CuTeP                 | EN       | European Union | Rod                          |
| CW118C                | EN       | European Union | Rod                          |
| 2.1546                | DIN      | Germany        | Rod                          |

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