

## Material: ISO CU 3

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

**Group:** Non Ferrous Copper Alloys

**Sub Group:** ISO CU 3 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                  |          |
|----------------------|------|-----------------|---------------------------------|----------|
| Iron                 | Fe % | 0.350 max.      | As Raw or Solution Heat Treated |          |
| Lead                 | Pb % | 2.500 - 3.500   |                                 |          |
| Copper               | Cu % | 56.000 - 59.000 |                                 |          |
| Zinc                 | Zn % | Balance         |                                 |          |
| -                    | -    | -               |                                 |          |
| -                    | -    | -               |                                 |          |
| -                    | -    | -               |                                 |          |
| -                    | -    | -               |                                 |          |
| -                    | -    | -               |                                 |          |
| -                    | -    | -               |                                 |          |
|                      |      |                 | Mechanical Properties           |          |
| -                    | -    | -               | Tensile Strength in Mpa         | 370 min. |
| -                    | -    | -               | Yield Strength in Mpa           | 250 min. |
| -                    | -    | -               | Elongation in %                 | 11 min.  |
| -                    | -    | -               | Reduction of Area in %          | -        |
| -                    | -    | -               | Hardness in BHN                 | -        |
| -                    | -    | -               | Impact in Joule                 | -        |

| Cross Reference Table |          |               |                              |
|-----------------------|----------|---------------|------------------------------|
| Material              | Standard | Country       | Grade Belong to the Industry |
| EN 12164 CuZn39Pb3    | DIN      | Germany       | Rod                          |
| CuZn39Pb3             | GOST     | Russia        | Rod                          |
| LS58-3                | GOST     | Russia        | Rod                          |
| CuZn39Pb3             | ISO      | International | Rod                          |
| C 3604 BD             | JIS      | Japan         | Rod                          |
| C 3604 BE             | JIS      | Japan         | Rod                          |
| C 3604 BF             | JIS      | Japan         | Rod                          |

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