

Material: AFNOR NF CuZn40

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

Group: Non Ferrous Copper Alloys

Sub Group: AFNOR NF CuZn40 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 | | |
|----------------------|------|-----------------|
| Aluminium | Al % | 0.050 max. |
| Lead | Pb % | 0.200 max. |
| Iron | Fe % | 0.200 max. |
| Nickel | Ni % | 0.300 max. |
| Other | Ot % | 0.200 max. |
| Copper | Cu % | 59.000 - 61.500 |
| Zinc | Zn % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---------------------------------|
| As Raw or Solution Heat Treated |

| Mechanical Properties | |
|-------------------------|-------------|
| Tensile Strength in Mpa | 289.3 - 750 |
| Yield Strength in Mpa | 86 min. |
| Elongation in % | 1 min. |
| Reduction of Area in % | - |
| Hardness in HV | 75 - 205 |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| EN 12164 CuZn39Pb2 | DIN | Germany | Rod |
| M059 | PN | Poland | Rod |
| B 124 CW612N | ASTM | USA | Rod |
| Ms58 | DIN | Germany | Rod |
| CZ 120 | BS | British | Rod |
| C37700 | UNS | USA | Rod |
| CW509L | AFNOR NF | France | Rod |

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