



Material - AFNOR NF CuZn37Mn3Al2PbSi

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

Group - Non Ferrous Copper Alloys

Sub Group - AFNOR NF CuZn37Mn3Al2PbSi 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 | |
|----------------------|------|-----------------|---------------------------------|-----------|
| Aluminium | Al % | 1.300 - 2.300 | As Raw or Solution Heat Treated | |
| Iron | Fe % | 1.000 max. | | |
| Manganese | Mn % | 1.500 - 3.000 | | |
| Nickel | Ni % | 1.000 max. | | |
| Lead | Pb % | 0.200 - 0.800 | | |
| Silicon | Si % | 0.300 - 1.300 | | |
| Tin | Sn % | 0.400 max. | | |
| Other | Ot % | 0.300 max. | | |
| Copper | Cu % | 57.000 - 59.000 | Mechanical Properties | |
| Zinc | Zn % | Balance | Tensile Strength in Mpa | 540 min. |
| - | - | - | Yield Strength in Mpa | 200 min. |
| - | - | - | Elongation in % | 5 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in HV | 140 - 200 |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| CuZn37Mn3Al2PbSi | DIN | Germany | Rod |
| CW713R | AFNOR NF | France | Rod |
| CuZn37Mn3Al2PbSi | MSZ | Hungary | Rod |
| CW713R | MSZ | Hungary | Rod |
| CuZn37Mn3Al2PbSi | CSN | Czech Republic | Rod |
| CW713R | CSN | Czech Republic | Rod |
| CW713R | DIN | Germany | 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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.