

Material: BSI BS1400 CN1 CuNi30Cr

Standard Specification for Copper Alloy and High Conductivity Conductivity Copper Casting

Group: Non-Ferrous Copper Alloy

Sub Group: BSI BS1400 Copper Alloy and High Conductivity Conductivity Copper Casting

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

Belongs to the Industry: Ingot and Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------|----------|
| Lead | Pb % | 0.005 max. | As-Cast | |
| Phosphorus | P % | 0.005 max. | | |
| Nickel | Ni % | 29.000 - 33.000 | | |
| Iron | Fe % | 0.400 - 1.000 | | |
| Manganese | Mn % | 0.400 - 1.000 | | |
| Silicon | Si % | 0.200 - 0.400 | | |
| Bismuth | Bi % | 0.002 max. | | |
| Sulphur | S % | 0.010 max. | | |
| Carbon | C % | 0.020 max. | | |
| Chromium | Cr % | 1.500 - 2.000 | | |
| | | | Mechanical Properties | |
| Zirconium | Zr % | 0.050 - 0.150 | Tensile Strength in Mpa | 480 min. |
| Cobalt | Co % | 0.050 max. | Yield Strength in Mpa | 300 min. |
| Other | Ot% | 0.200 max. | Elongation in % | 18 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| - | - | - | - |
| - | - | - | - |
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| - | - | - | - |
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