

Material: IS 6912 Cu FHTB5

Standard Specification for Copper and Copper Alloy Forging Stock and Forgings

Group: Non-Ferrous Copper Alloy

Sub Group: IS 6912 Copper and Copper Alloy Forging Stock and Forgings

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

Belongs to the Industry: Forging

| Chemical Composition | | |
|----------------------|------|-----------------|
| Lead | Pb % | 0.100 max. |
| Tin | Sn % | 0.100 max. |
| Iron | Fe % | 0.300 - 1.000 |
| Aluminium | Al % | 3.500 - 4.500 |
| Manganese | Mn % | 0.150 max. |
| Nickel | Ni % | 2.000 - 3.000 |
| Silicon | Si % | 0.750 - 1.250 |
| Cobalt | Co % | 0.500 - 1.500 |
| Other | Ot% | 0.750 max. |
| Copper | Cu % | 59.000 - 62.000 |
| Zinc | Zn % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment | |
|----------------|--------|
| | As Raw |

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 635 min. |
| Yield Strength in Mpa | - |
| Elongation in % | 2 min. |
| Reduction of Area in % | - |
| Hardness in HRB | 95 min. |
| Impact in Joule | - |

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