

Material: IS 6912 Cu FHTB3

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 | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------|----------|
| Lead | Pb % | 0.200 - 0.800 | As Raw | |
| Tin | Sn % | 0.300 max. | | |
| Iron | Fe % | 0.200 - 1.000 | | |
| Aluminium | Al % | 1.400 - 2.000 | | |
| Manganese | Mn % | 1.600 - 2.200 | | |
| Nickel | Ni % | 1.000 - 0.200 | | |
| Silicon | Si % | 0.500 - 1.000 | | |
| Other | Ot% | 0.500 max. | | |
| Copper | Cu % | 56.500 - 60.000 | | |
| Zinc | Zn % | Balance | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 600 min. |
| - | - | - | Yield Strength in Mpa | - |
| - | - | - | Elongation in % | 10 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in HRB | 85 min. |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| - | - | - | - |
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Customer Care: +91-99090 45075 Email: info@icastllp.com