

## 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			Heat Treatment	
Lead	Pb %	0.100 max.	As Raw	
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	<b>Mechanical Properties</b> 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 -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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