

# Material: IS 6912 Cu FHTB4

## 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 %	0.150 max.
Tin	Sn %	0.150 max.
Iron	Fe %	0.500 max.
Aluminium	Al %	2.500 - 3.500
Manganese	Mn %	2.500 - 3.500
Nickel	Ni %	0.200 - 0.500
Silicon	Si %	0.750 - 1.250
Chromium	Cr %	0.100 - 0.300
Other	Ot%	0.750 max.
Copper	Cu %	60.000 - 63.000
Zinc	Zn %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	As Raw

Mechanical Properties	
Tensile Strength in Mpa	575 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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