

## Material: IS 6912 Cu FRHC

### Standard Specification for Copper and Copper Alloy Forging Stock and Forging

**Group:** Non-Ferrous Copper Alloy

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

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

**Belongs to the Industry:** Forging

Chemical Composition			Heat Treatment	
Bismuth	Bi %	0.0025 max.	Normalizing or Annealing or Tempering	
Lead	Pb %	0.005 max.		
Other	Ot%	0.040 max.		
Copper	Cu %	99.900 min.		
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-	-	-		
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-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	154.5 - 698.2
-	-	-	Yield Strength in Mpa	55 - 367
-	-	-	Elongation in %	6 - 45
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HV	60 - 90
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
9805 Grade 1	IS	India	Casting
C 102	BS	British	Tube
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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)