

## Material: IS 9805 Grade 2

### Standard Specification for High Conductivity Copper Casting

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** IS 9805 High Conductivity Copper Casting

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

**Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Lead	Pb %	0.010 max.	As-Cast	
Bismuth	Bi %	0.001 max.		
Antimony	Sb %	0.005 max.		
Iron	Fe %	0.030 max.		
Phosphorus	P %	0.030 max.		
Arsenic	As %	0.050 max.		
Nickel	Ni %	0.100 max.		
Tin	Sn %	0.010 max.		
Selenium + Tellurium	Se % + Te%	0.020 max.		
Tellurium	Te %	0.010 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa 200 min. Yield Strength in Mpa - Elongation in % 46 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
Other	Ot%	0.060 max.		
Copper	Cu %	99.800 max.		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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