



## Material - BDS CW458K

### Standard Specification for Copper-Tin Alloy Rod

Group - Non Ferrous Copper Alloys

Sub Group - BDS CW458K Copper-Tin Alloy Rod

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Rod

Chemical Composition			Heat Treatment	
Iron	Fe %	0.100 max.	As Raw or Solution Heat Treated	
Nickel	Ni %	0.200 max.		
Phosphorus	P %	0.010 - 0.400		
Lead	Pb %	0.500 - 1.500		
Tin	Sn %	3.500 - 4.500		
Zinc	Zn %	0.300 max.		
Other	Ot %	0.200 max.		
Copper	Cu %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	450 min.
-	-	-	Yield Strength in Mpa	350 min.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	115 - 210
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuSn5Pb1	DIN	Germany	Rod
C 5341 B	JIS	Japan	Rod, Bar and Wire
CuSn5Pb1	AFNOR NF	France	Rod
CW458K	AFNOR NF	France	Rod
CuSn5Pb1	SFS	Finland	Rod
CW458K	SFS	Finland	Rod
CuSn5Pb1	BDS	Bulgaria	Rod

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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