



Material - BDS CuSn5Pb1

Standard Specification for Copper-Tin Alloy Rod

Group - Non Ferrous Copper Alloys

Sub Group - BDS CuSn5Pb1 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
CW458K	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

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