



## Material - JIS C 3712 BD

**Standard Specification for Copper and Copper Alloy Rod for Free Machining Purpose**

**Group - Non Ferrous Copper Alloys**

**Sub Group - JIS C 3712 BD Copper and Copper Alloy Rod for Free Machining Purpose**

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

**Grade Belongs to the Industry - Rod**

Chemical Composition			Heat Treatment	
Arsenic	As %	0.020 max.	As Raw or Solution Heat Treated	
Fe + Sn	Fe% + Sn%	0.800 max.		
Nickel	Ni %	0.200 max.		
Lead	Pb %	0.250 - 1.200		
Copper	Cu %	58.000 - 62.000		
Zinc	Zn %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	315 min.
			Yield Strength in Mpa	-
			Elongation in %	15 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 12164 CuZn39Pb0.5	DIN	Germany	Rod
5163	SS	Sweden	Rod
C 2800 W	JIS	Japan	Rod
C 3710 R	JIS	Japan	Rod
C 3712 BE	JIS	Japan	Rod
C 3712 BF	JIS	Japan	Rod
C 4640 P	JIS	Japan	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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