



## Material - BS CuZn39Pb1

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

Group - Non Ferrous Copper Alloys

Sub Group - BS CuZn39Pb1 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	
Aluminium	Al %	0.050 max.	As Raw or Solution Heat Treated	
Iron	Fe %	0.300 max.		
Nickel	Ni %	0.300 max.		
Lead	Pb %	0.800 - 1.600		
Tin	Sn %	0.300 max.		
Other	Ot %	0.200 max.		
Copper	Cu %	59.000 - 60.000		
Zinc	Zn %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa   360 min. Yield Strength in Mpa   220 - 300 Elongation in %   8 min. Reduction of Area in %   - Hardness in HV   80 - 155 Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuZn39Pb1	DIN	Germany	Rod
CW611N	BS	British	Rod
CuZn39Pb1	UNE	Spain	Rod
CW611N	UNE	Spain	Rod
CuZn39Pb1	UNI	Italy	Rod
CW611N	UNI	Italy	Rod
CW611N	DIN	Germany	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)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.