

## Material: DIN CW611N

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

**Group:** Non Ferrous Copper Alloys

**Sub Group:** UNI CW611N 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		
-	-	-	Mechanical Properties	
-	-	-	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
CuZn39Pb1	BS	British	Rod
CW611N	BS	British	Rod
CuZn39Pb1	UNE	Spain	Rod
CW611N	UNE	Spain	Rod
CuZn39Pb1	UNI	Italy	Rod
CW611N	UNI	Italy	Rod

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