

# Material: DIN EN 12164 CuZn36Pb2Sn1 (CW711R)

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

**Group:** Non Ferrous Copper Alloys

**Sub Group:** DIN EN 12164 CuZn36Pb2Sn1 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		
Iron	Fe %	0.100 max.
Nickel	Ni %	0.300 max.
Lead	Pb %	1.300 - 2.200
Tin	Sn %	0.500 - 1.000
Other	Ot %	0.200 max.
Copper	Cu %	59.500 - 61.500
Zinc	Zn %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Solution Heat Treated

Mechanical Properties	
Tensile Strength in Mpa	360 min.
Yield Strength in Mpa	200 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in HV	110 min.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 21 C48500	ASTM	USA	Rod, Bar and Shape
B 124 C48500	ASTM	USA	Rod, Bar and Shape
B 283 C48500	ASTM	USA	Forging
SB-283 C48500	ASME	USA	Forging
2.0371	DIN	Germany	Rod
485	AS	Australia	Forging
C48500	AS	Australia	Ingot and Casting

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