

# Material: PN CuS

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

**Group:** Non Ferrous Copper Alloys

**Sub Group:** PN CuS 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		
Arsenic	As %	0.010 max.
Sulphur	S %	0.200 - 0.600
Bismuth	Bi %	0.002 max.
Iron	Fe %	0.050 max.
Nickel	Ni %	0.200 max.
Other	Ot %	0.300 max.
Antimony	Sb %	0.005 max.
Tin	Sn %	0.050 max.
Copper	Cu %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As Raw or Solution Heat Treated	

Mechanical Properties	
Tensile Strength in Mpa	250 min.
Yield Strength in Mpa	150 - 240
Elongation in %	8 min.
Reduction of Area in %	-
Hardness in BHN	85 min.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 12164 CuSP	DIN	Germany	Rod
2.1525	DIN	Germany	Rod
CuSi 3 Mn	DIN	Germany	Rod
SB-Cu	DIN	Germany	Rod
MI	PN	Poland	Rod
CuSP	BS	British	Rod
CW114C	BS	British	Rod

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