

## Material: BS NS 113

### Standard Specification for Copper and Copper Alloy Plate

**Group:** Non Ferrous Copper Alloys

**Sub Group:** BS NS 113 Copper and Copper Alloy Plate

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

**Grade Belongs to the Industry:** Plate

Chemical Composition			Heat Treatment	
Iron	Fe %	0.300 max.	As Raw or Solution Heat Treated	
Manganese	Mn %	0.100 - 0.500		
Nickel	Ni %	17.000 - 19.000		
Lead	Pb %	0.400 - 0.800		
Other	Ot %	0.100 max.		
Copper	Cu %	60.000 - 63.000		
Zinc	Zn %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 420 min. Yield Strength in Mpa 280 min. Elongation in % 12 min. Reduction of Area in % - Hardness in HV 130 min. Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
CuNi18Zn19Pb1	DIN	Germany	Rod
CuNi 18 Zn 19 Pb	DIN	Germany	Rod
Ns6218Pb	DIN	Germany	Rod
C 7941 B	JIS	Japan	Rod, Bar and Wire
MZN181	PN	Poland	Rod
CuNi18Zn19Pb1	UNI	Italy	Rod
CW408J	UNI	Italy	Rod

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