

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		
Iron	Fe %	0.300 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Solution Heat Treated

Mechanical Properties	
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	-

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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