

## Material: PN MZN181

### Standard Specification for Copper-Nickel-Zinc Alloy Rod

**Group:** Non Ferrous Copper Alloys

**Sub Group:** PN MZN181 Copper-Nickel-Zinc Alloy Rod

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

**Grade Belongs to the Industry:** Rod

Chemical Composition			Heat Treatment	
Iron	Fe %	0.300 max.	As Raw or Solution Heat Treated	
Manganese	Mn %	0.700 max.		
Nickel	Ni %	17.000 - 19.000		
Lead	Pb %	0.500 - 1.500		
Cobalt	Co %	0.500 max.		
Copper	Cu %	59.000 - 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
NS 113	BS	British	Plate
CuNi18Zn19Pb1	UNI	Italy	Rod
CW408J	UNI	Italy	Rod

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