



## Material - DIN EN 12164 CuNi18Zn19Pb1 (CW408J)

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

Group - Non Ferrous Copper Alloys

Sub Group - DIN EN 12164 CuNi18Zn19Pb1 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				
Tin	Sn %	0.200 max.				
Other	Ot %	0.200 max.				
Copper	Cu %	59.500 - 62.500				
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	-
-	-	-				

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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
NS 113	BS	British	Plate
CuNi18Zn19Pb1	UNI	Italy	Rod
CW408J	UNI	Italy	Rod

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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