

Material: ASTM B151 C71520

Standard Specification for Copper-Nickel-Zinc Alloy and Copper-Nickel Rod and Bar

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B151 Copper-Nickel-Zinc Alloy and Copper-Nickel Rod and Bar

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

Belongs to the Industry: Rod and Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 max.	Normalizing or Annealing or Tempering	
Iron	Fe %	0.400 - 1.000		
Manganese	Mn %	1.000 max.		
Ni + Co	Ni% + Co%	29.000 - 33.000		
Phosphorus	P %	0.020 max.		
Lead	Pb %	0.020 max.		
Sulphur	S %	0.020 max.		
Zinc	Zn %	0.500 max.		
Cu + Ag	Cu% + Ag%	65.000 min.		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	310 - 550
-	-	-	Yield Strength in Mpa	105 - 415
-	-	-	Elongation in %	7 - 30
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B124 C71520	ASTM	USA	Rod, Bar and Shapes
B171 C71520	ASTM	USA	Plate and Sheet
B283 C71520	ASTM	USA	Forging
B466 C71520	ASTM	USA	Pipe and Tube
SB-151 C71520	ASME	USA	Rod and Bar
SB-171 C71520	ASME	USA	Plate and Sheet
SB-283 C71520	ASME	USA	Forging

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