Material: ASME SB-151 C71520

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

Group: *Non-Ferrous Copper Alloy*
Sub Group: *ASME SB-151 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		
Carbon	C %	0.050 max.
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.
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Tempering

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
B151 C71520	ASTM	USA	Rod and Bar
B171 C71520	ASTM	USA	Plate and Sheet
B283 C71520	ASTM	USA	Forging
B466 C71520	ASTM	USA	Pipe and Tube
SB-171 C71520	ASME	USA	Plate and Sheet
SB-283 C71520	ASME	USA	Forging

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