



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SB-171 C71520

Standard Specification for Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers and Heat Exchangers

Group - Non-Ferrous Copper Alloy

Sub Group - ASME SB-171 Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers and Heat Exchangers

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

Grade Belongs to the Industry - Plate and Sheet

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 - 345
			Yield Strength in Mpa	125 - 140
			Elongation in %	30 min.
			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-151 C71520	ASME	USA	Rod and Bar
SB-283 C71520	ASME	USA	Forging

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS