



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM B283 C70620

Standard Specification for Copper and Copper-Alloy Die Forgings

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B283 Copper and Copper-Alloy Die Forgings

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

Grade Belongs to the Industry - Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 max.	Normalizing or Annealing or Tempering	
Iron	Fe %	1.000 - 1.800		
Manganese	Mn %	1.000 max.		
Ni + Co	Ni% + Co%	9.000 - 11.000		
Phosphorus	P %	0.020 max.		
Lead	Pb %	0.020 max.		
Sulphur	S %	0.020 max.		
Zinc	Zn %	0.500 max.		
Copper	Cu %	86.500 min.		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	276 - 310
-	-	-	Yield Strength in Mpa	103 - 124
-	-	-	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 C70620	ASTM	USA	Rod, Bar and Shapes
B151 C70620	ASTM	USA	Bar
B171 C70620	ASTM	USA	Plate and Sheet
B466 C70620	ASTM	USA	Pipe and Tube
SB-151 C70620	ASME	USA	Rod and Bar
SB-171 C70620	ASME	USA	Plate and Sheet
SB-283 C70620	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.

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