GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM B283 C71520

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		
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.
Copper	Cu %	65.000 min.
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Tempering

Mechanical Properties	
Tensile Strength in Mpa	310 - 380
Yield Strength in Mpa	124 - 138
Elongation in %	30 - 45
Reduction of Area in %	-
Hardness in HRB	35 min.
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
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

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