



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - ASME SB-171 C63200

**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	
Aluminium	Al %	8.700 - 9.500	Normalizing or Annealing or Tempering	
Iron	Fe %	3.500 - 4.300		
Manganese	Mn %	1.200 - 2.000		
Ni + Co	Ni% + Co%	4.000 - 4.800		
Lead	Pb %	0.020 max.		
Silicon	Si %	0.100 max.		
Cu + Ag	Cu% + Ag%	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      550 - 620 Yield Strength in Mpa      195 - 235 Elongation in %      10 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B124 C63200	ASTM	USA	Rod, Bar and Shapes
B150 C63200	ASTM	USA	Rod, Bar and Shape
B171 C63200	ASTM	USA	Plate and Sheet
B283 C63200	ASTM	USA	Forging
SB-150 C63200	ASME	USA	Rod, Bar and Shape
SB-283 C63200	ASME	USA	Forging
C63200	UNS	USA	Rod, Bar and Shape

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