



## Material - BS 3100 Grade B1

## Standard Specification for Steel Castings for General Engineering Purposes

**Group - Ferrous Mild Steel Alloys** 

Sub Group - BS 3100 Grade B1 Steel Castings for General Engineering Purposes
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	С%	0.200 max.		
Silicon	Si %	0.200 - 0.600	As Cast or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.400 - 1.000		alizing or Hardoning and
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.300 max.		
Molybdenum	Mo %	0.450 - 0.650		
Nickel	Ni %	0.400 max.		
Copper	Cu %	0.300 max.	Mechanical Properties	
Other	Ot %	0.800 max.	Tensile Strength in Mpa	460 min.
Iron	Fe %	Balance	Yield Strength in Mpa	260 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	•
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	20 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
A5	BS	British	Casting	
A6	BS	British	Casting	
1527	SAE	USA	Casting	
1527	AISI	USA	Bar	
A 830 1527	ASTM	USA	Casting	
2708 Grade 2	IS	India	Casting	
2708 Grade 3	IS	India	Casting	

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

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