



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS B 2

Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS B 2 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	C %	0.200 max.	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	1.000 - 1.500		
Nickel	Ni %	0.400 max.		
Molybdenum	Mo %	0.450 - 0.650		
Copper	Cu %	0.300 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	480 - 820
-	-	-	Yield Strength in Mpa	280 min.
-	-	-	Elongation in %	14 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	140 - 241
-	-	-	Impact in Joule	10 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13052	UNS	USA	Casting
200-400 W	JIS	Japan	Casting
6120	AISI	USA	Forging, Bar, Wire, and Shape
B 4	BS	British	Forging
B 5	BS	British	Forging
B 6	BS	British	Forging
A732 5N	ASTM	USA	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

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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