

# Material: BS B 5

## Standard Specification for Steel Castings for General Engineering Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** BS B 5 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		
Carbon	C %	0.200 max.
Silicon	Si %	0.750 max.
Manganese	Mn %	0.400 - 0.700
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	4.000 - 6.000
Nickel	Ni %	0.400 max.
Molybdenum	Mo %	0.450 - 0.650
Copper	Cu %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	620 - 920
Yield Strength in Mpa	420 min.
Elongation in %	13 min.
Reduction of Area in %	-
Hardness in HB	179 - 269
Impact in Joule	15 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13052	UNS	USA	Casting
200-400 W	JIS	Japan	Casting
B 2	BS	British	Forging
B 4	BS	British	Forging
6120	AISI	USA	Forging, Bar, Wire, and Shape
B 6	BS	British	Forging
A732 5N	ASTM	USA	Casting

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