

Material: BS B 6

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: BS B 6 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 Normalizing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	0.300 - 0.700		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	8.000 - 10.000		
Nickel	Ni %	0.400 max.		
Molybdenum	Mo %	0.900 - 1.200		
Copper	Cu %	0.300 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	620 - 1050
-	-	-	Yield Strength in Mpa	420 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	179 - 311
-	-	-	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
B 2	BS	British	Forging
B 4	BS	British	Forging
B 5	BS	British	Forging
6120	AISI	USA	Forging, Bar, Wire, and Shape
A732 5N	ASTM	USA	Casting

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