

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			Heat Treatment	
Carbon	C %	0.200 max.	Annealing or Normalizing or Hardening + Tempering	
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		
-	-	-	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	
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-	-	-		
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-	-	-		
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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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Customer Care: +91-99090 45075 Email: info@icastllp.com