

Material: BS 3100 Grade B3

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: BS 3100 Grade B3 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 %	0.180 max.	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.400 - 0.700		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	2.000 - 2.750		
Molybdenum	Mo %	0.900 - 1.200		
Nickel	Ni %	0.400 max.		
Copper	Cu %	0.300 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 540 min. Yield Strength in Mpa 325 min. Elongation in % 17 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 25 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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