

# Material: BS 3100 Grade B6

## Standard Specification for Steel Castings for General Engineering Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BS 3100 Grade B6 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 %	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
Molybdenum	Mo %	0.900 - 1.200
Nickel	Ni %	0.400 max.
Copper	Cu %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Cast or Annealing or Normalizing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	620 min.
Yield Strength in Mpa	420 min.
Elongation in %	13 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2074/H2A	AS	Australia	Casting
629	BS	British	Casting
B4	BS	British	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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