

Material: BS 3100 Grade A4

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: BS 3100 Grade A4 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 - 0.250	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.200 - 1.600		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	540 - 690
-	-	-	Yield Strength in Mpa	320 min.
-	-	-	Elongation in %	16 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	152 - 207
-	-	-	Impact in Joule	30 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2708 Grade 1	IS	India	Casting
2074/L1A	AS	Australia	Casting
1524	SAE	USA	Casting
1524	AISI	USA	Casting
A 29 1524	ASTM	USA	Bar
A 510 1524	ASTM	USA	Wire and Rod
A 519 1524	ASTM	USA	Tube

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