

# Material: IS 2708 Grade 1

## Standard Specification for Steel Castings for General Engineering Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** IS 2708 Grade 1 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 %	0.180 - 0.250
Silicon	Si %	0.600 max.
Manganese	Mn %	1.200 - 1.600
Phosphorus	P %	0.050 max.
Sulphur	S %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	520 min.
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
A4	BS	British	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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