GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE 4620

Standard Specification for General characteristics and heat treatments of steels

Group - Ferrous Mild Steel Alloys

Sub Group - SAE 4620 General characteristics and heat treatments of steels

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.170 - 0.220
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.450 - 0.650
Phosphorus	P %	0.030 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	0.200 max.
Nickel	Ni %	1.650 - 2.000
Molybdenum	Mo %	0.200 - 0.300
Copper	Cu %	0.350 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalising or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	896 min.
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	183 - 241
Impact in Joule	45.1 - 155.1 J @ RT

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
4615.0000	SAE	USA	Steel
4617.0000	AISI	USA	Bar, Steel and Forging
4617.0000	SAE	USA	Bar, Steel and Forging
4615.0000	AISI	USA	Steel
4620.0000	AISI	USA	Steel
A757 C1Q	ASTM	USA	Casting
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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com