



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - AISI 4615

### Standard Specification for Alloy Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - AISI 4615 Alloy Steel Casting

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

Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.130 - 0.180	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.450 - 0.650		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.040 max.		
Nickel	Ni %	1.650 - 2.000		
Molybdenum	Mo %	0.200 - 0.300		
Chromium	Cr %	0.200 max.		
Copper	Cu %	0.350 max.		
Vanadium	V %	0.020 - 0.080		
Niobium	Nb %	0.020 - 0.050	<b>Mechanical Properties</b> Tensile Strength in Mpa      480 - 965 Yield Strength in Mpa      - Elongation in %      - Reduction of Area in %      - Hardness in HB      174 - 241 Impact in Joule      0	
Aluminium	Al %	0.020 - 0.050		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

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
4620.0000	SAE	USA	Steel
4620.0000	AISI	USA	Steel
A757 C1Q	ASTM	USA	Casting
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

**ONE STOP SOLUTION FOR METAL PARTS**