



## Material - PN 1.4517

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - PN 1.4517 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	24.500 - 26.500		
Molybdenum	Mo %	2.500 - 3.500		
Nickel	Ni %	5.000 - 7.000		
Copper	Cu %	2.750 - 3.500		
Nitrogen	N %	0.120 - 0.220		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa      650 - 850 Yield Strength in Mpa      480 min. Elongation in %      22 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      50 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX2CrNiMoCuN25-6-3-3	BS	British	Plate, Tubes and Forging
GX2CrNiMoCuN25-6-3-3	ISO	International	Casting
1.4517	ISO	International	Casting
GX2CrNiMoCuN25-6-3-3	SS	Sweden	Casting
1.4517	SS	Sweden	Casting
GX2CrNiMoCuN25-6-3-3	PN	Poland	Casting
1.4517	EN	European Union	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)**

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