



## Material - BDS 1.4417

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BDS 1.4417 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 %	0.030 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	24.000 - 26.000		
Molybdenum	Mo %	3.000 - 4.000		
Nickel	Ni %	6.000 - 8.500		
Copper	Cu %	1.000 max.		
Nitrogen	N %	0.150 - 0.250		
Tungsten	W %	1.000 max.	Mechanical Properties	
Iron	Fe %	Balance	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
GX2CrNiMoN25-7-3	BS	British	Plate, Tubes and Forging
GX2CrNiMoN25-7-3	ISO	International	Casting
1.4417	ISO	International	Casting
GX2CrNiMoN25-7-3	BDS	Bulgaria	Casting
GX2CrNiMoN25-7-3	CSN	Czech Republic	Casting
1.4417	CSN	Czech Republic	Casting
1.4417	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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