



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BDS GX2CrNiMoN25-7-3

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BDS GX2CrNiMoN25-7-3 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
1.4417	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

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.

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