



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

## Material - CSN 1.6982

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - CSN 1.6982 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 %	0.050 max.	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	12.000 - 13.500		
Molybdenum	Mo %	0.700 max.		
Nickel	Ni %	3.500 - 5.000		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.800 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa      700 - 900 Yield Strength in Mpa      500 min. Elongation in %      15 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
EN 10213 GX3CrNi13-4	BS	British	Plate, Tubes and Forging
GX3CrNi13-4	ISO	International	Casting
1.6982	ISO	International	Casting
1.6982	BDS	Bulgaria	Casting
GX 3 CrNi 13 4	BDS	Bulgaria	Casting
GX 3 CrNi 13 4	CSN	Czech Republic	Casting
GX 3 CrNi 13 4	SFS	Finland	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**