

# Material: BDS 1.6982

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BDS 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		
Carbon	C %	0.050 max.
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
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
GX 3 CrNi 13 4	BDS	Bulgaria	Casting
1.6982	CSN	Czech Republic	Casting
GX 3 CrNi 13 4	CSN	Czech Republic	Casting
GX 3 CrNi 13 4	SFS	Finland	Casting

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India