



## Material - DIN G-X 6 CrNi 18 9

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - DIN G-X 6 CrNi 18 9 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 %	0.070 max.	Normalizing or Quenching or Solution Annealing			
Silicon	Si %	2.000 max.				
Manganese	Mn %	1.500 max.				
Phosphorus	P %	0.045 max.				
Sulphur	S %	0.030 max.				
Chromium	Cr %	18.000 - 20.000				
Nickel	Ni %	8.000 - 11.000				
Iron	Fe %	Balance				
-	-	-	<b>Mechanical Properties</b>			
-	-	-			Tensile Strength in Mpa	440 - 640
-	-	-			Yield Strength in Mpa	175 min.
-	-	-			Elongation in %	30 min.
-	-	-			Reduction of Area in %	-
-	-	-			Hardness in HB	130 - 200
-	-	-			Impact in Joule	60 J @ RT
-	-	-			-	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX5CrNi19-10	BS	British	Plate, Tubes and Forging
1.4308	ISO	International	Casting
GX5CrNi19-10	ISO	International	Casting
A 743 Grade CF-8	ASTM	USA	Casting
A 743 J92600	ASTM	USA	Casting
A 744 Grade CF-8	ASTM	USA	Casting
G-X 6 CrNi 18 9	SS	Sweden	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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