

# Material: SS G-X 6 CrNi 18 9

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** SS 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 %	9.000 - 11.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	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	DIN	Germany	Casting

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