



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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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