

Material: ISO 1.4309

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: ISO 1.4309 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 %	0.030 max.	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	1.500 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	18.000 - 20.000		
Nickel	Ni %	9.000 - 12.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	440 min.
-	-	-	Yield Strength in Mpa	185 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	80 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX2CrNi19-11	BS	British	Plate, Tubes and Forging
GX2CrNi19-11	ISO	International	Casting
A 743 Grade CF-3	ASTM	USA	Casting
A 743 J92500	ASTM	USA	Casting
A 744 Grade CF-3	ASTM	USA	Casting
GX2CrNi19-11	SFS	Finland	Casting
GX2CrNi19-11	DIN	Germany	Casting

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