



Material - ASTM A 743 J92710

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A 743 J92710 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 %	0.080 max.	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	2.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	18.000 - 21.000		
Nickel	Ni %	9.000 - 12.000		
Nb + Ta	Nb % + Ta %	1.100 max.		
Niobium	Nb %	1.000 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 485 min. Yield Strength in Mpa 205 min. Elongation in % 30 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 25.1 - 60.4 J @ RT	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX5CrNiNb19-11	BS	British	Plate, Tubes and Forging
GX5CrNiNb19-11	ISO	International	Casting
1.4552	ISO	International	Casting
A 743 Grade CF-8C	ASTM	USA	Casting
A 744 Grade CF-8C	ASTM	USA	Casting
SCS 21	JIS	Japan	Casting
GX5CrNiNb19-11	AFNOR NF	France	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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