

Material: ASTM A 743 Grade CF-8C

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A 743 Grade CF-8C Steel Castings for Pressure Purposes

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.080 max.
Silicon	Si %	2.000 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

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

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 J92710	ASTM	USA	Casting
A 744 Grade CF-8C	ASTM	USA	Casting
SCS 21	JIS	Japan	Casting
GX5CrNiNb19-11	AFNOR NF	France	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India