

## 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			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 %	0.030 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	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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