

# Material: ASTM A 744 Grade CF-8

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A 744 Grade CF-8 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 %	0.040 max.
Chromium	Cr %	18.000 - 21.000
Nickel	Ni %	8.000 - 11.000
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 %	35 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	40.2 - 91.7 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
G-X 6 CrNi 18 9	DIN	Germany	Casting
G-X 6 CrNi 18 9	SS	Sweden	Casting

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