

# Material: ASME SA-351 CF8C

## Standard Specification for Austenitic and Austenitic-Ferritic Steel Castings for Valves, Flanges, Fittings, and Other Pressure-Containing Parts

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** SA-351 Austenitic and Austenitic-Ferritic Steel Castings for Valves, Flanges, Fittings, and Other Pressure-Containing Parts

**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 %	9.000 - 12.000
Niobium	Nb %	8 x %C < Nb <
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	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 @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4552	EN	European Union	Casting
347 C 17	BS	British	Casting
SCS 21	JIS	Japan	Casting
GX 5 CrNiNb 19-11	DIN	Germany	Casting
A743 CF8C	ASTM	USA	Casting
A744 CF8C	ASTM	USA	Casting
A351 CH8C	ASTM	USA	Casting

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