Material: ASTM A351 CF10SMnN

Standard Specification for Castings, Austenitic, for Pressure-Containing Parts

Group: *Ferrous Stainless Steel Alloys*
Sub Group: *ASTM A351 / 351M Castings, Austenitic, for Pressure-Containing Parts*
Application: *Intended for Valves, Pumps, General Engineering, Automobile and Other Industries Grade*
Belongs to the Industry: *Casting*

Chemical Composition		
Carbon	C %	0.100 max.
Silicon	Si %	3.500 - 4.500
Manganese	Mn %	7.000- 9.000
Phosphorus	P %	0.060 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	16.000 - 18.000
Nickel	Ni %	8.000 - 9.000
Nitrogen	N %	0.080 - 0.180
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	585 min.
Yield Strength in Mpa	295 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A743 CF10MnN	ASTM	USA	Casting
SA-351 CF10SMnN	ASME	USA	Casting
J92972	UNS	USA	Casting
S21800	UNS	USA	Casting
5848	AMS	USA	Bar, Wire, Extrusions, Tube, Ring and Forging
SA-276 S21800	ASME	USA	Bar and Shape
A 580 S21800	ASTM	USA	Wire

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