

## Material - ASME SA-351 CF10SMnN

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

**Group - Ferrous Stainless Steel Alloys** 

Sub Group - ASME SA-351 CF10SMnN Austenitic 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			Heat Treatment	
Carbon	C %	0.100 max.		
Silicon	Si %	3.500 - 4.500		
Manganese	Mn %	7.000 - 9.000	Solution Annealing	
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	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	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
A743 CF10MnN	ASTM	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 Shapes	
A580 S21800	ASTM	USA	Wire	
A351 CF10SMnN	ASTM	USA	Casting	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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