

Material: ASME SA-351 Grade CF10MC

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 Grade CF10MC 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		
Carbon	C %	0.100 max.
Silicon	Si %	1.500 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	15.000 - 18.000
Nickel	Ni %	13.000 - 16.000
Molybdenum	Mo %	1.750 - 2.250
Niobium	Nb %	10x%C - 1.200
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	205 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
20CH20N14S2L	GOST	Russia	Casting
GX25CrNiSi 20-14	DIN	Germany	Casting
LH 19 N 14 G	PN	Poland	Casting
1.4832	DIN	Germany	Casting
A351 CF10MC	ASTM	USA	Casting
7806 Grade 13	IS	India	Casting
J92971	UNS	USA	Casting

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