



## 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			Heat Treatment	
Carbon	C %	0.100 max.	Solution Annealing	
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		
-	-	-	<b>Mechanical Properties</b> 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

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.