Material: ASME SA-351 Grade CG6MMN

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: *ASME SA-351 Grade CG6MMN 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 %	0.060 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	4.000 - 6.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	20.500 - 23.500
Nickel	Ni %	11.500 - 13.500
Molybdenum	Mo %	1.500 - 3.000
Vanadium	V %	0.100 - 0.300
Niobium	Nb %	0.100 - 0.300
Nitrogen	N %	0.200 - 0.400
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**
J93790	UNS	USA	Casting
A 743 CG6MMN	ASTM	USA	Casting
A351 CG6MMN	ASTM	USA	Casting
1.3956	ISO	International	Casting
GX4CrNiMnN22-12-5	ISO	International	Casting
CG6MMN	KS	Korea	Casting
5764	SAE	USA	Casting

Customer Care: +91-99090 45075 Email: info@icastllp.com