

Material: ASTM A351 CG6MMN

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			Heat Treatment	
Carbon	C %	0.060 max.	Solution Annealing	
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		
Niobium	Nb %	0.100 - 0.300		
Vanadium	V %	0.100 - 0.300		
Nitrogen	N %	0.200 - 0.400		
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	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CG6MMN	ASTM	USA	Casting
SA-351 Grade CG6MMN	ASME	USA	Casting
J93790	UNS	USA	Casting
1.3956	ISO	International	Casting
GX4CrNiMnN22-12-5	ISO	International	Casting
CG6MMN	KS	Korea	Rod, Wire and Casting
5764	SAE	USA	Casting

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