

Material: ISO 1.3956

Standard Specification for Cast Steels and Alloys with Special Physical Properties

Group: Ferrous Stainless Steel Alloys

Sub Group: ISO 1.3956 Cast Steels and Alloys with Special Physical Properties

Application: Intended for Valve, Pump, General Engineering, Automotive 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		
Vanadium	V %	0.100 - 0.300		
Niobium	Nb %	0.100 - 0.300		
Nitrogen	N %	0.200 - 0.400	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	580 min.
-	-	-	Yield Strength in Mpa	290 min.
-	-	-	Elongation in %	24 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-351 Grade CG6MMN	ASME	USA	Casting
A 743 CG6MMN	ASTM	USA	Casting
A351 CG6MMN	ASTM	USA	Casting
J93790	UNS	USA	Casting
GX4CrNiMnN22-12-5	ISO	International	Casting
CG6MMN	KS	Korea	Casting
5764	SAE	USA	Casting

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

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