

Material: DIN G X 5 CrNi 22-10

Standard Specification for High-Temperature Resisting CrNiMn Steel

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN G X 5 CrNi 22-10 High-Temperature Resisting CrNiMn Steel

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.070 max.
Silicon	Si %	0.500 - 1.200
Manganese	Mn %	1.500 - 2.000
Phosphorus	P %	0.035 max.
Sulphur	S %	0.025 max.
Chromium	Cr %	22.000 - 23.000
Nickel	Ni %	9.500 - 10.500
Molybdenum	Mo %	0.750 max.
Copper	Cu %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	205 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 CG12	ASTM	USA	Casting
UNS J93001	UNS	USA	Casting
1.4947	DIN	Germany	Casting
3444	IS	India	Casting
-	-	-	-
-	-	-	-
-	-	-	-

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



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India