

Material: DIN 1.4947

Standard Specification for High-Temperature Resisting CrNiMn Steel

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4947 High-Temperature Resisting CrNiMn Steel

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.070 max.	Solution Annealing	
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	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
G X 5 CrNi 22-10	DIN	Germany	Casting
J93001	UNS	USA	Casting
3444	IS	India	Casting
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