



## 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		
-	-	-	<b>Mechanical Properties</b> 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      -	
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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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**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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