

Material: ASTM A744 Grade CG3M

Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant for Severe Service

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A744 Grade CG3M Iron-Chromium-Nickel, Corrosion Resistant for Severe Service

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	1.500 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	18.000 - 21.000
Nickel	Ni %	9.000 - 13.000
Molybdenum	Mo %	3.000 - 4.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	515 min.
Yield Strength in Mpa	240 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J93001	UNS	USA	Casting
G X 5 CrNi 22-10	DIN	Germany	Casting
1.4947	DIN	Germany	Casting
A743 CG3M	ASTM	USA	Casting
J92999	UNS	USA	Casting
-	-	-	-
-	-	-	-

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