

Material: ASTM A 743 J91540

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A 743 J91540 Steel Castings for Pressure Purposes

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.	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	11.500 - 14.000		
Molybdenum	Mo %	0.400 - 1.000		
Nickel	Ni %	3.500 - 4.500		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	755 min.
-	-	-	Yield Strength in Mpa	550 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in HB	285 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 GX4CrNi13-4	BS	British	Plate, Tubes and Forging
GX4CrNi13-4	ISO	International	Casting
1.4317	ISO	International	Casting
A 743 Grade CA-6NM	ASTM	USA	Casting
GX4CrNi13-4	UNE	Spain	Casting
GX4CrNi13-4	NS	Norway	Casting
GX4CrNi13-4	AFNOR NF	France	Casting

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