Material: ASTM A351 CH10

Standard Specification for Castings, Austenitic, for Pressure-Containing Parts

Group: *Ferrous Stainless Steel Alloys*
Sub Group: *ASTM A351 / 351M Castings, Austenitic, for Pressure-Containing Parts*
Application: *Intended for Valves, Pumps, General Engineering, Automobile and Other Industries Grade*
Belongs to the Industry: *Casting*

Chemical Composition		
Carbon	C %	0.040 - 0.100
Silicon	Si %	2.000 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	22.000 - 26.000
Nickel	Ni %	12.000 - 15.000
Molybdenum	Mo %	0.500 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 CH10	ASTM	USA	Casting
J93401	UNS	USA	Casting
SA-351 Grade CH10	ASME	USA	Casting
1.4950 EN	EN	European Union	Flat Products Made of Steel for Pressure Purpose
309S	AISI	USA	Bar, Wire, Strip, Plat, Sheet and Forging
SUS 309 STB	JIS	Japan	Superheater, Tubes of Boiler and Heat Exchangers
X 6 CrNi 23-14	UNI	Italy	Plate, Sheet, Strip and Coil

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