

# Material: ASME SA-351 CH10

## Standard Specification for Steel Castings for Valves, Flanges, Fittings, and Other Pressure-Containing Parts

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASME SA-351 CH10 Steel Castings for Valves, Flanges, Fittings, and Other Pressure-Containing Parts

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

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 - 0.100	Solution Annealing	
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		
-	-	-	<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
J93401	UNS	USA	Casting
1.4950	EN	European Union	Flat Products Made of Steels 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, Sheets, Strip and Coil
A743 CH10	ASTM	USA	Casting
A351 CH10	ASTM	USA	Casting

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