



## Material - ASTM A351 CH8

**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			Heat Treatment	
Carbon	C %	0.080 max.	Solution Annealing	
Silicon	Si %	1.500 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	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	450 min.
-	-	-	Yield Strength in Mpa	195 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
SA-351 Grade CH8	ASME	USA	Casting
309S	AISI	USA	Bar, Wire, Strip, Plate, Sheet and Forging
X7CrNi 23-14	DIN	Germany	Rolled and Forged Steel
X12CrNi 23-13	EN	European Union	Bar, Wire, Strip, Plate, Sheet and Forging
X15CrNi 24-13	AFNOR NF	France	Rolled Tubes for Pressure Service
SUS 309S	JIS	Japan	Wire, Rod for Welding Material
X 6 CrNi 23-14	UNI	Italy	Plate, Sheet, Strip and Coil

**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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