

Material: ASTM A351 CH20

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 %	0.040 - 0.200	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		
-	-	-		
			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 CH20	ASTM	USA	Casting
309	SAE	USA	Bar, Wire, Shape and Forging
1.4833	EN	European Union	Hot or Cold Rolled, Sheet, Plate, Strip, Bar and Rods
SUH 309	JIS	Japan	Bar, Wire, Rods, Sheets and Plat
X 16 CrNi 23-14	UNI	Italy	Plate, Sheets, Strip and Coil
SA-351 Grade CH 20	ASME	USA	Casting
X 15 CrNi 24-13	AFNOR NF	France	Rolled, Tubes for Pressure Service

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