

Material: AISI 309S

Standard Specification for Seamless and Heavily Cold Worked Austenitic Stainless Steel Bar Wire, Strip, Plate, Sheet and Forging

Group: Ferrous Stainless Steel Alloys

Sub Group: AISI 309S Seamless and Heavily Cold Worked Austenitic Stainless Steel Bar Wire, Strip, Plate, Sheet and Forging

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

Grade Belongs to the Industry: Bar Wire, Strip, Plate, Sheet, and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	12.000 - 15.000		
Molybdenum	Mo %	0.750 max.		
Copper	Cu %	0.750 max.		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	515 - 1030
-	-	-	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	15 min
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in HB	217 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-351 Grade CH10	ASME	USA	Casting
1.4950	EN	European Union	Flat Products Made of Steels for Pressure Purpose
J93401	UNS	USA	Casting
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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