

# Material: JIS SUS 309 S

## Standard Specification for Heat-Resisting Steel Bars

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** JIS SUS 309 S Heat-Resisting Steel Bars

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

**Grade Belongs to the Industry:** Wire for Cold Forged Fasteners

Chemical Composition		
Carbon	C %	0.080 max.
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
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 1130
Yield Strength in Mpa	205 min.
Elongation in %	20 min.
Reduction of Area in %	60 min.
Hardness in BHN	187 J @ RT
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-351 Grade CH8	ASME	USA	Casting
X 7 CrNi 23-14	DIN	Germany	Rolled and Forged Steel
X 12 CrNi 23-13	EN	European Union	Bar, Wire, Strip, Plat, Sheet and Forging
X 15 CrNi 24-13	AFNOR NF	France	Rolled Tubes for Pressure Service
309S	AISI	USA	Bar, Wire, Strip, Plat, Sheet and Forging
X 6 CrNi 23-14	UNI	Italy	Plate, Sheet, Strip and Coil
A351 CH8	ASTM	USA	Casting

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