



## 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			Heat Treatment	
Carbon	C %	0.080 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.	Solution Annealing	
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		
-	-	-	Mechanical Properties	
-	<b>/</b> -		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
-	-	-	Impac <mark>t in Joule</mark>	-

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			

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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