

# Material: JIS SUH 309

## Standard Specification for Iron-Chromium-Nickel, Bar, Wire, Rods, Sheets and Plat

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** JIS SUH 309 Iron-Chromium-Nickel, Bar, Wire, Rods, Sheets and Plat

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

**Grade Belongs to the Industry:** Bar, Wire, Rods, Sheets and Plat

Chemical Composition		
Carbon	C %	0.200 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 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	560 min.
Yield Strength in Mpa	205 min.
Elongation in %	40 min.
Reduction of Area in %	50 min
Hardness in BHN	201 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4833	EN	European Union	Hot or Cold Rolled, Sheet, Plate, Strip, Bar and Rods
309	SAE	USA	Bar, Wire, Shapes and Forging
X 16 CrNi 23-14	UNI	Italy	Plate, Sheet, Strip and Coil
SA-351 Grade CH20	ASME	USA	Casting
X 15 CrNi 24-13	AFNOR NF	France	Rolled Tubes for Pressure Service
A743 CH20	ASTM	USA	Casting
A351 CH20	ASTM	USA	Casting

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