



Material - SAE 309

Standard Specification for Iron-Chromium-Nickel, Bar Wire, Strip, Plate, Sheet, and Forging
Group - Ferrous Stainless Steel Alloys

Sub Group - SAE 309 Iron-Chromium-Nickel, 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 %	0.200 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 %	1.000 max.		
Copper	Cu %	1.000 Max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 517 min. Yield Strength in Mpa 206 min. Elongation in % 30 min. Reduction of Area in % 50 min. Hardness in HRC 95 max. Impact in Joule -	
-	-	-		
-	-	-		
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-	-	-		
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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
SUH 309	JIS	Japan	Bar, Sheet, Strip and Coil
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

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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