

# Material: AMS 309

## Standard Specification for Steel, Corrosion Resistant, Bars, Wire, Shapes and Forgings

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** AMS 309 Steel, Corrosion Resistant, Bars, Wire, Shapes and Forgings

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

**Grade Belongs to the Industry:** Bar, Wire, Shape and Forging

Chemical Composition		
Carbon	C %	0.200 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
Molybdenum	Mo %	1.000 max.
Nickel	Ni %	12.000 - 15.000
Copper	Cu %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	517 min.
Yield Strength in Mpa	207 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G X 35 CrNi 28-09	UNI	Italy	Casting
J93303	UNS	USA	Casting
1.4339	DIN	Germany	Casting
309	SAE	USA	Bar, Wire, Shape and Forging
G X 32 CrNi 28-10	DIN	Germany	Casting
309	AMS	USA	Bar, Wire, Shape and Forging
A447	ASTM	USA	Casting

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India