



## Material - AISI 309

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

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - AISI 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			Heat Treatment	
Carbon	C %	0.200 max.	Normalising or Annealing or Hardening + Tempering	
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		
-	-	-	<b>Mechanical Properties</b>	
-	-	-	Tensile Strength in Mpa	515 min.
-	-	-	Yield Strength in Mpa	170 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in HB	217 max.
-	-	-	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
309	AMS	USA	Bar, Wire, Shape and Forging
G X 32 CrNi 28-10	DIN	Germany	Casting
A447	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](mailto:marketing@gravitycastindia.com)**

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