

# Material: UNS J93303

## Standard Specification for Alloy Steel Casting

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** UNS J93303 Alloy Steel Casting

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

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 - 0.450	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	1.750 max.		
Manganese	Mn %	2.500 max.		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 max.		
Chromium	Cr %	23.000 - 28.000		
Nickel	Ni %	10.000 - 14.000		
Nitrogen	N %	0.200 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 min.
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	4 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
G X 32 CrNi 28-10	DIN	Germany	Casting
1.4339	DIN	Germany	Casting
309	SAE	USA	Bar, Wire, Shape and Forging
309	AMS	USA	Bar, Wire, Shape and Forging
309	AMS	USA	Bar, Wire, Shape and Forging
A447	ASTM	USA	Casting

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