

Material: ASTM A447

Standard Specification for Steel Castings, Chromium-Nickel-Iron Alloy (25-12 Class), for High-Temperature Service¹

Group: Steel Castings

Sub Group: ASTM A447 / A447M Steel Castings, Chromium-Nickel-Iron Alloy (25-12 Class), for High-Temperature Service¹

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	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	1.750 max.		
Manganese	Mn %	2.500 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 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
Gx 32 CrNi28-10	DIN	Germany	Casting
Gx 32 CrNi28-09	UNI	Italy	Casting
J93303	UNS	USA	Casting
1.4339	DIN	Germany	Casting
309	SAE	USA	Bar, Wire, Shape and Forging
309	SAE	USA	Bar, Wire, Shape and Forging
309	AISI	USA	Bar, Wire, Shape and Forging

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