

Material: ASTM A426 Grade CP9

Standard Specification for Centrifugally Cast Ferritic Alloy Steel Pipe for High Temperature Service

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A426 Grade CP9 Centrifugally Cast Ferritic Alloy Steel Pipe for High Temperature Service

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 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.250 - 1.000		
Manganese	Mn %	0.300 - 0.650		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.250 max.		
Chromium	Cr %	8.000 - 10.000		
Molybdenum	Mo %	0.9000 - 1.200		
Nickel	Ni %	0.500 max.		
Tungsten	W %	0.100 max.		
Copper	Cu %	0.500 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 620 min. Yield Strength in Mpa 415 min. Elongation in % 18 min. Reduction of Area in % 35 min. Hardness in HB 225 max. Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-217 Grade C12	ASME	USA	Casting
J82090	UNS	USA	Casting
G X 12 CrMo 10-1	DIN	Germany	Casting
1.7389	DIN	Germany	Casting
A217 Grade C12	ASTM	USA	Casting
A217 Grade C12A	ASTM	USA	Casting
A217 J84090	ASTM	USA	Casting

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