



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.	Normalising 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	<th colspan="2">Mechanical Properties</th>		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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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