



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-182 Grade F 11 Class 2

Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings and Valves and Parts for High-Temperature Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-182 Grade F 11 Class 2 Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings and Valves and Parts for High-Temperature Service

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Pipe and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 - 0.200		
Manganese	Mn %	0.300 - 0.800		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Silicon	Si %	0.500 - 1.000		
Chromium	Cr %	1.000 - 1.500		
Molybdenum	Mo %	0.440 - 0.650		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
Mechanical Properties				
Tensile Strength in Mpa		485 min.		
Yield Strength in Mpa		275 min.		
Elongation in %		20 min.		
Reduction of Area in %		30 min.		
Hardness in BHN		143 - 207		
Impact in Joule		-		

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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
K11572	UNS	USA	Steel
A 336 Grade F11A	ASTM	USA	Steel and Forging
A 541 Grade 2 Class 1	ASTM	USA	Steel and Forging
A 213 Grade T11	ASTM	USA	Steel and Tubing
A 369 Grade FP11	ASTM	USA	Steel and Pipe
A 182 F 11	ASTM	USA	Steel and Pipe
A 335 Grade P12	ASTM	USA	Steel and Pipe

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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