



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-182 Grade F 47

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-182 Grade F 47 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 %	0.030 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Silicon	Si %	0.750 max.		
Nickel	Ni %	13.000 - 17.500		
Chromium	Cr %	18.000 - 20.000		
Molybdenum	Mo %	4.000 - 5.000		
Nitrogen	N %	0.100 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Mechanical Properties	
Tensile Strength in Mpa	525 min.
Yield Strength in Mpa	205 min.
Elongation in %	40 min.
Reduction of Area in %	50 min.
Hardness in BHN	-
Impact in Joule	-

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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S31725	UNS	USA	Steel
A 276 S31725	ASTM	USA	Bars and Shapes
A 358 S31725	ASTM	USA	Steel
A 988 S31725	ASTM	USA	Steel
A 409 S31725	ASTM	USA	Steel and Pipe
A 240 S31725	ASTM	USA	Plate, Sheet and Strip
A 182 F 47	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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