



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.	Solution Annealing	
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.	Mechanical Properties	
Iron	Fe %	Balance	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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