



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-182 Grade F 46

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 46 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 %	0.018 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.020 max.		
Silicon	Si %	3.700 - 4.300		
Nickel	Ni %	14.000 - 15.500		
Chromium	Cr %	17.000 - 18.500		
Molybdenum	Mo %	0.200 max.		
Copper	Cu %	0.500 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Mechanical Properties	
Tensile Strength in Mpa	540 min.
Yield Strength in Mpa	240 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
S30600	UNS	USA	Steel
A 167 S30600	ASTM	USA	Plate, Sheet and Strip
A 943 S30600	ASTM	USA	Steel and Pipe
A 269 S30600	ASTM	USA	Steel and Tubing
A 312 S30600	ASTM	USA	Steel and Pipe
A 358 S30600	ASTM	USA	Steel and Pipe
A 479 S30600	ASTM	USA	Steel and Bar

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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