GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-182 Grade F 6NM

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 6NM Forged or Rolled Alloy and Stainles Steel Pipe Flanges, Forged Fittings and Valves and Parts for Hogh-Temperature Service

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

Grade Belongs to the Industry - Pipe and Forging

Chemical Composition		
Carbon	C %	0.050 max.
Manganese	Mn %	0.500 - 1.000
Phosphorus	P %	0.030 Max.
Sulphur	S %	0.030 max.
Silicon	Si %	0.600 max.
Nickel	Ni %	3.500 - 5.500
Chromium	Cr %	11.500 - 14.000
Molybdenum	Mo %	0.500 - 1.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalising & Tempering

Mechanical Properties	
Tensile Strength in Mpa	790 min.
Yield Strength in Mpa	620 min.
Elongation in %	15 min.
Reduction of Area in %	45 min.
Hardness in BHN	295 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S41500	UNS	USA	Steel
1.4413	DIN	Germany	Steel
A 268 S41500	ASTM	USA	Steel and Tubing
A 815 S41500	ASTM	USA	Steel and Pipe
A 959 S41500	ASTM	USA	Steel
A 240 S41500	ASTM	USA	Plate, Sheet and Strip
A 182 F 6NM	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.