GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-182 Grade F 6b

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 6b 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 %	0.150 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.020 max.
Sulphur	S %	0.020 max.
Silicon	Si %	1.000 max.
Nickel	Ni %	1.000 - 2.000
Chromium	Cr %	11.500 - 13.500
Molybdenum	Mo %	0.400 - 0.600
Copper	Cu %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalising & Tempering

Mechanical Properties	
Tensile Strength in Mpa	760 - 930
Yield Strength in Mpa	620 min.
Elongation in %	16 min.
Reduction of Area in %	45 min.
Hardness in BHN	235 - 285
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S41026	UNS	USA	Steel
G 3214 SUS F 6B	JIS	Japan	Steel
10283 1.1008	EN	European Union	Steel and Casting
10283 GX 12 Cr 12	EN	European Union	Steel and Casting
1449 410	AS	Australia	Plate, Sheet and Strip
A 182 F 6b	ASTM	USA	Steel and Pipe
A 959 S41026	ASTM	USA	Steel

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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