GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A182 F60

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A182 F60 Forged or Rolled Alloy-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, Bars and Forging

Chemical Composition		
Carbon	C %	0.030 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.020 max.
Silicon	Si %	1.000 max.
Nickel	Ni %	4.500 - 6.500
Chromium	Cr %	22.000 - 23.000
Molybdenum	Mo %	3.000 - 3.500
Nitrogen	N %	0.140 - 0.200
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	655 min.
Yield Strength in Mpa	485 min.
Elongation in %	25 min.
Reduction of Area in %	45 min.
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S32205	UNS	USA	Steel
X 2 CrNiMoN 22 5 3	EN	European Union	Steel
A 988 S32205	ASTM	USA	Steel
A 959 Type 2205	ASTM	USA	Steel
A 276 S32205	ASTM	USA	Bars and Shapes
A 815 S32205	ASTM	USA	Steel and Pipe
A 240 S32205	ASTM	USA	Plate, Sheet And Strip

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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