GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A182 F310MoLN

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 F310MoLN 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 %	0.020 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.010 max.
Silicon	Si %	0.050 max.
Nickel	Ni %	20.500 - 23.500
Chromium	Cr %	24.000 - 26.000
Molybdenum	Mo %	1.600 - 2.600
Nitrogen	N %	0.090 - 0.150
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	540 min.
Yield Strength in Mpa	255 min.
Elongation in %	25 min.
Reduction of Area in %	40 min.
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S31050	UNS	USA	Steel
J 405 310MoLN	SAE	USA	Steel
SA-312 UNS S31050	ASME	USA	Steel and Pipe
A 213 S31050	ASTM	USA	Steel and Tubing
A 312 S31050	ASTM	USA	Steel and Pipe
A 240 Type 310MoLN	ASTM	USA	Plate, Sheet and Strip
A 959 Type 310MoLN	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

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.