GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A335 Grade P12

Standard Specification for Seamless Ferritic Alloy-Steel Pipe for High-Temperature Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A335 Grade P12 Seamless Ferritic Alloy-Steel Pipe for High-Temperature Service

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

Grade Belongs to the Industry - Pipe

Chemical Composition		
Carbon	C %	0.050 - 0.150
Manganese	Mn %	0.300 - 0.610
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	0.500 max.
Chromium	Cr %	0.800 - 1.250
Molybdenum	Mo %	0.440 - 0.650
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Isothermal Annealing or Normalizing & Tempering

Mechanical Properties	
Tensile Strength in Mpa	415 min.
Yield Strength in Mpa	220 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K11562	UNS	USA	Steel
SA-335 Grade P12	ASME	USA	Tubing
SA-182 Grade F 11	ASME	USA	Pipe
A 182 F 11	ASTM	USA	Pipe
G 3203 SFVA F 12	JIS	Japan	Forging
G 3462 STBA 22	JIS	Japan	Tubing
17243 1.7335	DIN	Germany	Steel and Bars

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.