GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-335 Grade P1

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

Group - Ferrous Mild Steel Alloys
Sub Group - ASME SA-335 Grade P1 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 - Steel and Pipe

Chemical Composition		
Carbon	C %	0.100 - 0.200
Manganese	Mn %	0.300 - 0.800
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	0.100 - 0.500
Molybdenum	Mo %	0.440 - 0.650
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing & Tempering

Mechanical Properties	
Tensile Strength in Mpa	380 min.
Yield Strength in Mpa	205 min.
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K11522	UNS	USA	Steel
SA-250 Grade T1	ASME	USA	Steel and Tubing
SA-209 Grade T1	ASME	USA	Steel and Tubing
A 209 Grade T1	ASTM	USA	Steel and Tubing
A 335 Grade P1	ASTM	USA	Steel and Pipe
A 369 Grade FP1	ASTM	USA	Steel, Pipe and Forging
A 250 Grade T1	ASTM	USA	Steel and Tubing

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.