GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-335 Grade P22

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

Group - Ferrous Mild Steel Alloys
Sub Group - ASME SA-335 Grade P22 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 %	0.050 - 0.150
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	0.500 max.
Chromium	Cr %	1.900 - 2.600
Molybdenum	Mo %	0.870 - 1.130
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing & Tempering

Mechanical Properties	
Tensile Strength in Mpa	415 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**
K21590	UNS	USA	Steel
SA-369 FP22	ASME	USA	Steel and Pipe
SA-234 Grade WP22 CL3	ASME	USA	Steel
SA-234 Grade WP22 CL1	ASME	USA	Steel
A 369 Grade FP22	ASTM	USA	Steel and Pipe
A 234 Grade WP22 CL3	ASTM	USA	Steel
A 234 Grade WP22 CL1	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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