GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-335 Grade P911

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

Group - Ferrous Stainless Steel Alloys
Sub Group - ASME SA-335 Grade P911 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 %	0.090 - 0.130
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.020 max.
Sulphur	S %	0.010 max.
Silicon	Si %	0.100 - 0.500
Chromium	Cr %	8.500 - 9.500
Molybdenum	Mo %	0.900 - 1.100
Vanadium	V %	0.180 - 0.250
Nickel	Ni %	0.400 max.
Niobium	Nb %	0.060 - 0.100
Boron	B %	0.0003 - 0.0060
Nitrogen	N %	0.040 - 0.090
Aluminium	Al %	0.020 max.
Tungsten	W %	0.900 - 1.000
Titanium	Ti %	0.010 max.

Chemical Composition		
Zirconium	Zr %	0.010 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
Heat Treatment		
Normalizing & Tempering		
Mechanical Properties		
Tensile Strength in Mpa	620 min.	
Yield Strength in Mpa	440 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**
K91061	UNS	USA	Steel
SA-1017 Grade 911	ASME	USA	Steel and Plate
A 213 T911	ASTM	USA	Steel and Tubing
A 335 Grade P911	ASTM	USA	Steel
A 1017 Grade 911	ASTM	USA	Steel and Plate
A 234 Grade WP911	ASTM	USA	Steel
A 369 Grade FP911	ASTM	USA	Steel and Pipe

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.