GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-336 Grade F11 Class 1

Standard Specification for Alloy Steel Forgings for Pressure and High-Temperature Parts

Group - Ferrous Mild Steel Alloys
Sub Group - ASME SA-336 Grade F11 Class 1 Alloy Steel Forgings for Pressure and High-Temperature Parts
Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries
Grade Belongs to the Industry - Forgings

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 - 1.000
Chromium	Cr %	1.000 - 1.500
Molybdenum	Mo %	0.440 - 0.650
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalising & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	415 - 585
Yield Strength in Mpa	205 min.
Elongation in %	20 min.
Reduction of Area in %	45 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K11597	UNS	USA	Steel
9329-2 8 CrMo 5-5	ISO	International	Steel and Tubing
G 3462 STBA 23	JIS	Japan	Steel and Tubing
A 213 Grade T11	ASTM	USA	Steel and Tubing
A 200 Grade T11	ASTM	USA	Steel and Tubing
A 234 Grade WP11 CL1	ASTM	USA	Steel and Pipe
A 250 Grade T11	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

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