GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A369 Grade FP92

Standard Specification for Carbon and Ferritic Alloy Steel Forged and Bored Pipe for High-Temperature Service

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A369 Grade FP92 Carbon and Ferritic Alloy Steel Forged and Bored Pipe for High-Temperature Service

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

Grade Belongs to the Industry - Pipe and Forging

Chemical Composition		
Carbon	C %	0.070 - 0.130
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.020 max.
Sulphur	S %	0.010 max.
Silicon	Si %	0.500 max.
Chromium	Cr %	8.500 - 9.500
Molybdenum	Mo %	0.300 - 0.600
Tungsten	W %	1.500 - 2.000
Vanadium	V %	0.150 - 0.250
Niobium	Nb %	0.040 - 0.090
Nitrogen	N %	0.030 - 0.070
Nickel	Ni %	0.400 max.
Aluminium	Al %	0.040 max.
Boron	B %	0.001 - 0.006
Iron	Fe %	Balance

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

Mechanical Properties	
Tensile Strength in Mpa	620 min.
Yield Strength in Mpa	440 min.
Elongation in %	27 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K92460	UNS	USA	Steel
A 213 T92	ASTM	USA	Tubing
A 182 F 92	ASTM	USA	Pipe
A 335 Grade P92	ASTM	USA	Pipe
A 213 F911	ASTM	USA	Tubing
SA-213 Grade T92	ASME	USA	Tubing
SA-335 Grade P92	ASME	USA	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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