GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A336 Grade F22V

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A336 Grade F22V Steel Forgings for Pressure and High-Temperature Parts

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.110 - 0.150
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.015 max.
Sulphur	S %	0.010 max.
Silicon	Si %	0.100 max.
Nickel	Ni %	0.250 max.
Chromium	Cr %	2.000 - 2.500
Niobium	Nb %	0.070 max.
Molybdenum	Mo %	0.900 - 1.100
Copper	Cu %	0.200 max.
Vanadium	V %	0.250 - 0.350
Boron	B %	0.002 max.
Calcium	Ca %	0.015 max.
Iron	Fe %	Balance
-	-	-

Heat Treatment
As-Raw or Normalizing or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	585 - 760
Yield Strength in Mpa	415 min.
Elongation in %	18 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**
K31835	UNS	USA	Steel
A 182 F22V	ASTM	USA	Steel and Pipe
A 541 Grade 22V	ASTM	USA	Steel
A 542 Type D Class 1	ASTM	USA	Steel
A 542 Type D Class 2	ASTM	USA	Steel
A 542 Type D Class 3	ASTM	USA	Steel
A 542 Type D Class 4	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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