GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-336 Grade F5

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

Group - Ferrous Mild Steel Alloys
Sub Group - ASME SA-336 Grade F5 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 %	0.150 max.
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	0.500 max.
Nickel	Ni %	0.500 max.
Chromium	Cr %	4.000 - 6.000
Molybdenum	Mo %	0.450 - 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	250 min.
Elongation in %	20 min.
Reduction of Area in %	40 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K41545	UNS	USA	Steel
K41245	UNS	USA	Steel
SA-213 Grade T 5	ASME	USA	Steel
SA-199 Grade T5	ASME	USA	Steel
A 335 Grade P5	ASTM	USA	Steel
A 369 Grade FP5	ASTM	USA	Steel
A 199 Grade T5	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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