GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-336 Grade F6

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

Group - Ferrous Mild Steel Alloys
Sub Group - ASME SA-336 Grade F6 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 %	0.120 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	1.000 max.
Nickel	Ni %	0.500 max.
Chromium	Cr %	11.500 - 13.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalising & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	585 - 760
Yield Strength in Mpa	380 min.
Elongation in %	18 min.
Reduction of Area in %	35 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S41000	UNS	USA	Bars, Wire, Shapes and Forging
SAE AMS-QQ-S-763 410	AISI	USA	Steel
A 193 B6	ASTM	USA	Steel
A 193 B6X	ASTM	USA	Steel
A 194 Grade 6	ASTM	USA	Steel
A 511 MT410	ASTM	USA	Steel
A 493 Type 410	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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