GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A473 Type 416

Standard Specification for Stainless Steel Forgings

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A473 Type 416 Stainless Steel Forgings

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.150 max.
Manganese	Mn %	1.250 max.
Phosphorus	P %	0.060 max.
Sulphur	S %	0.150 min.
Silicon	Si %	1.000 max.
Chromium	Cr %	12.000 - 14.000
Molybdenum	Mo %	0.600 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	275 min.
Elongation in %	20 min.
Reduction of Area in %	45 min.
Hardness in HRC	223 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S41600	UNS	USA	Steel
A 314 416	ASTM	USA	Bars and Forging
A 473 416	ASTM	USA	Forging
A 959 Type 420F	ASTM	USA	Steel
A 895 Type 416	ASTM	USA	Plate, Sheet and Strip
G 4318 SUS 416	JIS	Japan	Steel and Bars
D 3703 STS 416	KS	Korea	Steel and Wire

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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