GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A176 Type 420

Standard Specification for Stainless and Heat-Resisting Chromium Steel Plate, Sheet, and Strip

Group - Ferrous Stainless Steel Alloys
Sub Group - ASTM A176 Type 420 Stainless and Heat-Resisting Chromium Steel Plate, Sheet, and Strip
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Plate, Sheet and Strip

Chemical Composition		
Carbon	C %	0.150 min.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	12.000 - 14.000
Nickel	Ni %	0.750 max.
Molybdenum	Mo %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Annealing or Normalizing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	690 min.
Yield Strength in Mpa	-
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in HB	217 max.
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S42000	UNS	USA	Steel
SAE J 405 420	AISI	USA	Steel
A 276 420	ASTM	USA	Bars and Shapes
A 580 Type 420	ASTM	USA	Steel and Wire
A 473 420	ASTM	USA	Steel and Forgings
A 959 Type 420	ASTM	USA	Steel
A 314 420	ASTM	USA	Bars and Forging

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.