GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A176 Type 442

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

Group - Ferrous Stainless Steel Alloys
Sub Group - ASTM A176 Type 442 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 %	0.200 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	18.000 - 23.000
Nickel	Ni %	0.600 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	515 min.
Yield Strength in Mpa	275 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HB	217 max.
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S44200	UNS	USA	Steel
J 405 51442	SAE	USA	Steel
970 En61	B.S.	United Kingdom	Steel
41 7041 17041	CSN	Czech Republic	Steel
41 7047 17047	CSN	Czech Republic	Steel
SAE J 405 442	AISI	USA	Steel
A 959 Type 442	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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