GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A353

Standard Specification for Pressure Vessel Plates, Alloy Steel, 9 Percent Nickel, Double-Normalized and Tempered

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A353 Pressure Vessel Plates, Alloy Steel, 9 Percent Nickel, Double-Normalized and Tempered

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries
Grade Belongs to the Industry - Plates

Chemical Composition		
Carbon	C %	0.130 max.
Manganese	Mn %	0.900 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Silicon	Si %	0.150 - 0.400
Nickel	Ni %	8.500 - 9.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Double-Normalizing

Mechanical Properties	
Tensile Strength in Mpa	690 - 825
Yield Strength in Mpa	515 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 522 Type I	ASTM	USA	Steel and Forging
A 553 Type I	ASTM	USA	Steel and Plates
G 3127 SL9 N520	JIS	Japan	Steel and Plates
G 3127 SL9 N590	JIS	Japan	Steel and Plates
G 3127 SL9N53	JIS	Japan	Steel and Plates
G 3127 SL9N60	JIS	Japan	Steel and Plates
SA-353	ASME	USA	Steel and Plates

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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