GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A203 Grade A

Standard Specification for Pressure Vessel Plates, Alloy Steel, Nickel

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A203 Grade A Pressure Vessel Plates, Alloy Steel, Nickel

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

Grade Belongs to the Industry - Plates

Chemical Composition		
Carbon	C %	0.170 max.
Manganese	Mn %	0.700 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Silicon	Si %	0.150 - 0.400
Nickel	Ni %	2.100 - 2.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing

Mechanical Properties	
Tensile Strength in Mpa	450 - 585
Yield Strength in Mpa	255 min.
Elongation in %	23 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**
1.5635	DIN	Germany	Steel
12 Ni 9	DIN	Germany	Steel
A 671 Grade CF 65	ASTM	USA	Steel and Pipe
G 3127 SL2N26	JIS	Japan	Plates
G 3127 SL2 N255	JIS	Japan	Plates
SA-671 CF 70	ASME	USA	Steel and Pipe
SA-671 CF 65	ASME	USA	Steel and Pipe

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.