GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A302 Grade C

Standard Specification for Pressure Vessel Plates, Alloy Steel, Manganese-Molybdenum and Manganese-Molybdenum-Nickel

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A302 Grade C Pressure Vessel Plates, Alloy Steel, Manganese-Molybdenum and Manganese-Molybdenum-Nickel

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

Grade Belongs to the Industry - Plates

Chemical Composition		
Carbon	C %	0.250 max.
Manganese	Mn %	1.150 - 1.500
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Silicon	Si %	0.150 - 0.400
Molybdenum	Mo %	0.450 - 0.600
Nickel	Ni %	0.400 - 0.700
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing or Stress Relieved

Mechanical Properties	
Tensile Strength in Mpa	550 - 690
Yield Strength in Mpa	345 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 533 B Class 1	ASTM	USA	Steel and Plates
A 533 B Class 3	ASTM	USA	Steel and Plates
A 533 B Class 2	ASTM	USA	Steel and Plates
A 573 Grade B	ASTM	USA	Steel and Plates
SA-672 H 80 UNS K12039	ASME	USA	Steel and Pipe
SA-672 J 100 UNS K12539	ASME	USA	Steel and Pipe
SA-302 Grade C	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

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.