GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A387 Grade 9 Class 1

Standard Specification for Pressure Vessel Plates, Alloy Steel, Chromium-Molybdenum

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A387 Grade 9 Class 1 Pressure Vessel Plates, Alloy Steel, Chromium-Molybdenum

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

Grade Belongs to the Industry - Plates

Chemical Composition		
Carbon	C %	0.150 max.
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.030 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	8.000 - 10.000
Molybdenum	Mo %	0.900 - 1.100
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Normalizing & Tempering

Mechanical Properties	
Tensile Strength in Mpa	415 - 585
Yield Strength in Mpa	205 min.
Elongation in %	18 min.
Reduction of Area in %	45 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
17176 1.7386	DIN	Germany	Tubing
41 7116 17116	CSN	Czech Republic	Steel
A 182 F 9	ASTM	USA	Pipe and Forging
A 199 Grade T9	ASTM	USA	Tubing
A 200 Grade T9	ASTM	USA	Tubing
A 213 Grade T9	ASTM	USA	Tubing
A 276 9	ASTM	USA	Bars and Shapes

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.