GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A387 Grade 12 Class 1

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A387 Grade 12 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 %	0.050 - 0.170
Manganese	Mn %	0.400 - 0.650
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Silicon	Si %	0.150 - 0.400
Chromium	Cr %	0.800 - 1.150
Molybdenum	Mo %	0.450 - 0.600
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Normalizing & Tempering

Mechanical Properties	
Tensile Strength in Mpa	380 - 550
Yield Strength in Mpa	230 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K11564	UNS	USA	Steel
K11757	UNS	USA	Steel
1.734	DIN	Germany	Steel
16 CrMo 4-4	DIN	Germany	Steel
7660 B 18 CrMo 4 5 KW	UNI	Italy	Steel and Forging
A 18 CrMo 4 5 KG	UNI	Italy	Steel and Forging
SA-387 Grade 12	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.