GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A387 Grade 11 Class 1

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A387 Grade 11 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 %	0.500 - 0.800
Chromium	Cr %	1.000 - 1.500
Molybdenum	Mo %	0.450 - 0.650
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Normalizing & Tempering

Mechanical Properties	
Tensile Strength in Mpa	415 - 585
Yield Strength in Mpa	240 min.
Elongation in %	22 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**
K11789	UNS	USA	Steel
G 4109 SCMV 3	JIS	Japan	Steel and Plates
A 739 Grade B 11	ASTM	USA	Steel and Bars
36256 F.8383	UNE	Spain	Casting
SA-739 Grade B 11	ASME	USA	Steel and Bars
SA-691 1 1/4CR	ASME	USA	Steel and Pipe
SA-387 Grade 11	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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