GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-234 WP1

Standard Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and Hign Temperature Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-234 WP1 Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and Hign Temperature Service

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

Grade Belongs to the Industry - Steel and Pipe

Chemical Composition		
Carbon	C %	0.280 max.
Manganese	Mn %	0.300 - 0.900
Phosphorus	P %	0.045 max.
Sulphur	S %	0.045 max.
Silicon	Si %	0.100 - 0.500
Molybdenum	Mo %	0.440 - 0.650
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Isothermal-Annealing or Normalizing or Normalizing & Tempering or As-Raw

Mechanical Properties	
Tensile Strength in Mpa	380 - 550
Yield Strength in Mpa	205 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K12821	UNS	USA	Steel
K12220	UNS	USA	Steel
1.5404	DIN	Germany	Steeel
21 MoV 5-3	DIN	Germany	Steel
7478 16ML	BDS	Bulgaria	Steel and Casting
A 426 Grade CP1	ASTM	USA	Steel and Pipe
A 234 Grade WP1	ASTM	USA	Steel

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.