GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A234 Grade WP12 CL1

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A234 Grade WP12 CL1 Standard Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service

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

Grade Belongs to the Industry - Pipe

Chemical Composition		
Carbon	C %	0.050 - 0.200
Manganese	Mn %	0.300 - 0.800
Phosphorus	P %	0.045 max.
Sulphur	S %	0.045 max.
Silicon	Si %	0.600 max.
Chromium	Cr %	0.800 - 1.250
Molybdenum	Mo %	0.440 - 0.650
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	415 - 585
Yield Strength in Mpa	220 min.
Elongation in %	30 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**
17243 1.7335	DIN	Germany	Bars and Forging
17243 13 CrMo 4 4	DIN	Germany	Bars and Forging
9329-2 8 CrMo 4-5	ISO	International	Steel and Tubing
7660 A 18 CrMo 4 5 KG	UNI	Italy	Forging
A 182 F 12	ASTM	USA	Steel and Pipe
A 213 Grade T12	ASTM	USA	Steel and Tubing
SA-234 Grade WP12 CL1	ASME	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.