



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-182 Grade F 24

Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings and Valves and Parts for High-Temperature Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-182 Grade F 24 Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings and Valves and Parts for High-Temperature Service

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

Grade Belongs to the Industry - Pipe and Forging

Chemical Composition			Chemical Composition		
Carbon	C %	0.050 - 0.100	-	-	-
Manganese	Mn %	0.300 - 0.700	-	-	-
Phosphorus	P %	0.020 max.	-	-	-
Sulphur	S %	0.010 max.	-	-	-
Silicon	Si %	0.150 - 0.450	-	-	-
Chromium	Cr %	2.200 - 2.600	Heat Treatment		
Molybdenum	Mo %	0.900 - 1.100	Normalising & Tempering		
Titanium	Ti %	0.060 - 0.100	Mechanical Properties		
Vanadium	V %	0.200 - 0.300	Tensile Strength in Mpa	585 min.	
Nitrogen	N %	0.120 max.	Yield Strength in Mpa	415 min.	
Aluminium	Al %	0.020 max.	Elongation in %	20 min.	
Boron	B %	0.0015 - 0.0070	Reduction of Area in %	40 min.	
Iron	Fe %	Balance	Hardness in BHN	248 max.	
-	-	-	Impact in Joule	-	
-	-	-			

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Cross Reference Table

Material	Standard	Country	Grade Belong to the Industry
K30736	UNS	USA	Steel
A 182 F 24	ASTM	USA	Steel and Pipe
A 213 T24	ASTM	USA	Steel and Tubing
7CrMoVTiB10-10 - 1.7378	EN	European Union	Steel and Tubing
10216-2 7CrMoVTiB10-10	EN	European Union	Pipe and Tubing
C.B5.022 C 7401	JUS	Yugoslavia	Steel and Tubing
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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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