



Material - ASTM A731 18Cr-2Mo

Standard Specification for Castings, Seamless and Ferritic Stainless Steel Pipe

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A731/ A731M Seamless and Ferritic Stainless Steel Pipe

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

Grade Belongs to the Industry - Pipe

Chemical Composition			Heat Treatment	
Carbon	C %	0.025 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.500 - 19.500		
Molybdenum	Mo %	1.750 - 2.500		
Ti + Nb	Ti% + Nb%	0.800 max.		
Nitrogen	N %	0.035 max.		
Ni+Cu	Ni% + Cu%	1.000 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	415 min.
-	-	-	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-731 18Cr-2Mo	ASME	USA	Casting
444	AS	Australia	Plate, Sheet and Strip
A176 S44400	ASTM	USA	Plate, Sheet and Strip
F.3123	UNE	Spain	Plate, Sheet and Strip
S44400	UNS	USA	Plate, Sheet and Strip
X2 CrMo TiNb 18-2	UNE	Spain	Plate, Sheet and Strip
444	SAE	USA	Plate, Sheet and Strip

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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