

## Material: ASME SA-731 XM-8

### Standard Specification for Castings, Seamless and Ferritic Stainless Steel Pipe

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASME SA-731 XM-8 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 %	0.070 max.	Normalizing 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 %	17.000 - 19.000		
Nickel	Ni %	0.500 max.		
Ni+Cu	Ni% + Cu%	0.500 max.		
Nitrogen	N %	0.040 max.		
Aluminium	Al %	0.150 max.	Mechanical Properties	
Titanium	Ti %	1.100 max.	Tensile Strength in Mpa	415 min.
Iron	Fe %	Balance	Yield Strength in Mpa	205 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
A731 TP XM-8	ASTM	USA	Pipes
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