



Material - ASME SA-276 XM-27

Standard Specification for Stainless Steel Bars and Shapes

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-276 XM-27 Stainless Steel Bars and Shapes

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

Grade Belongs to the Industry - Bar and Shapes

Chemical Composition			Heat Treatment	
Carbon	C %	0.010 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	0.400 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	25.000 - 27.500		
Molybdenum	Mo %	0.750 - 1.500		
Nickel	Ni %	0.500 max.		_
Niobium	Nb %	0.050 - 0.200	Mechanical Properties	
Nitrogen	N %	0.150 max.	Tensile Strength in Mpa	450 min.
Ni+Cu	Ni% + Cu%	0.500 max.	Yield Strength in Mpa	275 min.
Copper	Cu %	0.200 max.	Elongation in %	16 min.
Iron	Fe %	Balance	Reduction of Area in %	45 min.
-	-	-	Hardness in HB	219 max.
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
A176 Type XM-27	ASTM	USA	Plate, Sheet and Strip	
A240 Type XM-27	ASTM	USA	Plate, Sheet and Strip	
A276 XM-27	ASTM	USA	Bar and Shapes	
S44627	UNS	USA	Plate, Sheet and Strip	
SM-27	SAE	USA	Plate, Sheet and Strip	
SA-731 TPXM-27	ASME	USA	Casting	
A731 TP XM-27	ASTM	USA	Casting	

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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