

Material - ASTM A276 XM-27

Standard Specification for Stainless Steel Bars and Shapes

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A276 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.	Mechanical Properties Tensile Strength in Mpa 450 min. Yield Strength in Mpa 275 min. Elongation in % 16 min. Reduction of Area in % 45 min. Hardness in HB 219 max. Impact in Joule -	
Niobium	Nb %	0.050 - 0.200		
Nitrogen	N %	0.150 max.		
Ni+Cu	Ni% + Cu%	0.500 max.		
Copper	Cu %	0.200 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

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
SA-731 TPXM-27	ASME	USA	Casting
S44627	UNS	USA	Plate, Sheet and Strip
SM-27	SAE	USA	Plate, Sheet and Strip
SA-276 XM-27	ASME	USA	Bar and Shapes
A731 TP XM-27	ASTM	USA	Casting

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.com

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