

## Material - ASTM A 213 S31277

Standard Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes

## **Group - Non-Ferrous Nickel Alloys**

Sub Group - ASTM A 213 S31277 Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries Grade Belongs to the Industry - Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 max.		
Silicon	Si %	0.500 max.		
Manganese	Mn %	3.000 max.		
Chromium	Cr %	20.500 - 23.000	As-Cast or Annealing or Age Hardning	
Molybdenum	Mo %	6.500 - 8.000		
Copper	Cu %	0.500 - 1.500		
Nitrogen	N %	0.300 - 0.400		
Nickel	Ni %	26.000 - 28.000		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	770 min.
	-	-	Yield Strength in Mpa	360 min.
	-	-	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	100 max.
-	-	-	Impac <mark>t in Joule</mark>	-
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Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
Incoloy 27-7MO	Gravity	India	Sheet, Plate, Bar and Wire	
A 240 S31277	ASTM	USA	Plate, Sheet and Strip	
A 249 S31277	ASTM	USA	Tube	
A 312 S31277	ASTM	USA	Pipe	
A 580 S31277	ASTM	USA	Wire	
A 959 S31277	ASTM	USA	Pipe	
SA-213 S31277	ASME	USA	Tube	

## 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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