



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## Material - Gravity Incoloy 27-7MO

Standard Specification for Seamless and Heavily Cold Worked Austenitic Stainless Steel Sheet, Plate, Bar and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - Gravity Incoloy 27-7MO Seamless and Heavily Cold Worked Austenitic Stainless Steel Sheet, Plate, Bar and Wire

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

Grade Belongs to the Industry - Sheet, Plate, Bar and Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.010 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.200 max.		
Manganese	Mn %	1.400 max.		
Chromium	Cr %	22.000 max.		
Molybdenum	Mo %	7.300 max.		
Copper	Cu %	0.700 max.		
Nitrogen	N %	0.350 max.		
Iron	Fe %	41.000 max.		
Nickel	Ni %	27.000 min.		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	801.7 - 1577.3
-	-	-	Yield Strength in Mpa	414 - 1445.7
-	-	-	Elongation in %	4.7 - 50
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 213 S31277	ASTM	USA	Tube
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](mailto:marketing@gravitycastindia.com)

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

**ONE STOP SOLUTION FOR METAL PARTS**