



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A 959 Type 660

Standard Specification for Seamless Nickel and Nickel Alloy Pipe, Tube, Sheet, Strip, Plate, Round Bar, Flat Bar, Forging Stock, Hexagon and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM A 959 Type 660 Seamless Nickel and Nickel Alloy Pipe, Tube, Sheet, Strip, Plate, Round Bar, Flat Bar, Forging Stock, Hexagon and Wire

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

Grade Belongs to the Industry - Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Chromium	Cr %	13.500 - 16.000		
Sulphur	S %	0.030 max.		
Molybdenum	Mo %	1.000 - 1.500		
Aluminium	Al %	0.350 max.		
Boron	B %	0.003 - 0.010		
Titanium	Ti %	1.900 - 2.300		
Vanadium	V %	0.100 - 0.500		
Nickel	Ni %	24.000 - 27.000	Mechanical Properties Tensile Strength in Mpa 600 - 1500 Yield Strength in Mpa 737.4 min. Elongation in % 29.300 min. Reduction of Area in % - Hardness in HRC 31 max. Impact in Joule -	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Incoloy A-286	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
F 2281 660	ASTM	USA	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
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-	-	-	-
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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email 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.

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