

Material: ASTM F 2281 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 F 2281 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	
Iron	Fe %	Balance	Tensile Strength in Mpa	896 min.
-	-	-	Yield Strength in Mpa	586 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	22 - 37
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Incoloy A-286	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
A 959 Type 660	ASTM	USA	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
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