

# Material: SAE Nimonic 105

## 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:** SAE Nimonic 105 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		
Carbon	C %	0.130 max.
Silicon	Si %	0.250 max.
Manganese	Mn %	0.100 max.
Chromium	Cr %	19.000 max.
Titanium	Ti %	1.200 max.
Molybdenum	Mo %	5.000 max.
Cobalt	Co %	20.000 max.
Copper	Cu %	0.250 max.
Aluminium	Al %	4.500 max.
Iron	Fe %	0.400 max.
Nickel	Ni %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	986 min.
Yield Strength in Mpa	800 min.
Elongation in %	7.000 min.
Reduction of Area in %	7.000 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Nimonic Alloy 105	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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