

Material - ASTM B 619 N12160

Standard Specification for Nickel and Nickel-Cobalt Alloy Pipe

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 619 N12160 Nickel and Nickel-Cobalt Alloy Pipe

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

Grade Belongs to the Industry - Pipe

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.		
Silicon	Si %	2.400 - 3.000	As-Cast or Annealing or Age Hardning	
Manganese	Mn %	1.500 max.		
Chromium	Cr %	26.000 - 30.000		
Sulphur	S %	0.015 max.		
Molybdenum	Mo %	1.000 max.		
Phosphorus	Р%	0.030 max.		
Titanium	Ti %	0.020 - 0.800		
Iron	Fe %	3.500 max.	Mechanical Properties	
Tungsten	W %	1.000 max.	Tensile Strength in Mpa	620 min.
Cobalt	Co %	27.000 - 33.000	Yield Strength in Mpa	240 min.
Niobium	Nb %	1.000 max.	Elongation in %	40 min.
Nickel	Ni %	Balance	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
B 564 N1216	ASTM	USA	Forging	
B 622 N12160	ASTM	USA	Pipe and Tube	
B 626 N12160	ASTM	USA	Tube	
B 435 N12160	ASTM	USA	Plate, Sheet and Strip	
B 472 N12160	ASTM	USA	Billet and Bar	
B 572 N12160	ASTM	USA	Rod	
SB-564 N12160	ASME	USA	Forging	

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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