



Material - ASTM B 619 N10242

Standard Specification for Nickel and Nickel-Cobalt Alloy Pipe

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 619 N10242 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 %	0.030 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.800 max.		
Manganese	Mn %	0.800 max.		
Copper	Cu %	0.500 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	7.000 - 9.000		
Phosphorus	P %	0.030 max.		
Molybdenum	Mo %	24.000 - 26.000		
Cobalt	Co %	1.000 max.	Mechanical Properties	
Aluminium	Al %	0.500 max.	Tensile Strength in Mpa	725 min.
Boron	B %	0.006 max.	Yield Strength in Mpa	310 min.
Iron	Fe %	2.000 max.	Elongation in %	40 min.
Nickel	Ni %	Balance	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 434 N10242	ASTM	USA	Plate, Sheet and Strip
B 564 N10242	ASTM	USA	Forging
B 573 N10242	ASTM	USA	Rod
B 622 N10242	ASTM	USA	Pipe and Tube
B 626 N10242	ASTM	USA	Tube
SB-573 N10242	ASME	USA	Rod
SB-619 N10242	ASME	USA	Pipe

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.