



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SB-333 N10001

Standard Specification for Nickel-Molybdenum Alloy Plate, Sheet and Strip

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-333 N1001 Nickel-Molybdenum Alloy Plate, Sheet and Strip

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

Grade Belongs to the Industry - Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Cobalt	Co %	2.500 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	1.000 max.		
Iron	Fe %	4.000 - 6.000	Mechanical Properties	
Molybdenum	Mo %	26.000 - 30.000	Tensile Strength in Mpa	690 min.
Vanadium	V %	0.200 - 0.400	Yield Strength in Mpa	310 min.
Nickel	Ni %	Balance	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	100 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 333 N10001	ASTM	USA	Plate, Sheet and Strip
B 335 N10001	ASTM	USA	Rod
B 619 N10001	ASTM	USA	Pipe
B 622 N10001	ASTM	USA	Pipe and Tube
B 626 N10001	ASTM	USA	Tube
N10001	UNS	USA	Plate, Sheet and Strip
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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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