



## Material - ASME SB-434 N10003

### Standard Specification for Nickel-Molybdenum-Chromium-Iron Alloys Plate, Sheet and Strip

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-434 N10003 Nickel-Molybdenum-Chromium-Iron Alloys 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 %	0.040 - 0.080	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	6.000 - 8.000		
Sulphur	S %	0.020 max.		
Molybdenum	Mo %	15.000 - 18.000		
Phosphorus	P %	0.015 max.		
Cobalt	Co %	0.200 max.		
Copper	Cu %	0.350 max.		
Iron	Fe %	5.000 max.		
Boron	B %	0.010 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa      690 min. Yield Strength in Mpa      280 min. Elongation in %      40 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
Tungsten	W %	0.500 max.		
Vanadium	V %	0.500 max.		
Al + Ti	Al % + Ti %	0.500 max.		
Nickel	Ni %	Balance		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 434 N10003	ASTM	USA	Plate, Sheet and Strip
B 573 N10003	ASTM	USA	Rod
SB-573 N10003	ASME	USA	Rod
N10003	UNS	USA	Rod
-	-	-	-
-	-	-	-
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto: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.