GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - UNS N10003

Standard Specification for Nickel-Molybdenum-Chromium-Iron Alloys Rod

Group - Non-Ferrous Nickel Alloys

Sub Group - UNS N10003 Nickel-Molybdenum-Chromium-Iron Alloys Rod

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

Grade Belongs to the Industry - Rod

Chemical Composition		
Carbon	C %	0.040 - 0.080
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.
Tungsten	W %	0.500 max.
Vanadium	V %	0.500 max.
Aluminium	Al %	0.500 max.
Nickel	Ni %	Balance

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	690 min.
Yield Strength in Mpa	280 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

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-434 N10003	ASME	USA	Plate, Sheet and Strip
SB-573 N10003	ASME	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

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.