



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - ASTM B 572 R30556

**Standard Specification for Nickel-Iron-Chromium-Molybdenum Alloy Rod**

**Group - Non-Ferrous Nickel Alloys**

**Sub Group - ASTM B 572 R30556 Nickel-Iron-Chromium-Molybdenum Alloy Rod**

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

**Grade Belongs to the Industry - Rod**

Chemical Composition			Chemical Composition		
Carbon	C %	0.050 - 0.150	Zirconium	Zr %	0.001 - 0.100
Silicon	Si %	0.200 - 0.800	Nickel	Ni %	19.000 - 22.500
Manganese	Mn %	0.500 - 2.000	Iron	Fe %	Balance
Chromium	Cr %	21.000 - 23.000	-	-	-
Sulphur	S %	0.015 max.	-	-	-
Molybdenum	Mo %	2.500 - 4.000	Heat Treatment		
Phosphorus	P %	0.040 max.	As-Cast or Annealing or Age Hardning		
Cobalt	Co %	16.000 - 21.000	Mechanical Properties		
Aluminium	Al %	0.100 - 0.500	Tensile Strength in Mpa	690 min.	
Lanthanum	La %	0.005 - 0.100	Yield Strength in Mpa	310 min.	
Boron	B %	0.020 max.	Elongation in %	40 min.	
Niobium	Nb %	0.030 max.	Reduction of Area in %	-	
Tantalum	Ta %	0.300 - 1.250	Hardness in BHN	-	
Nitrogen	N %	0.100 - 0.300	Impact in Joule	-	
Tungsten	W %	2.000 - 3.500			

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 619 R30556	ASTM	USA	Pipe
B 622 R30556	ASTM	USA	Pipe
B 626 R30556	ASTM	USA	Tube
B 435 R30566	ASTM	USA	Plate, Sheet and Strip
B 472 R30566	ASTM	USA	Billets and Bars for Reforging
SB-619 R30556	ASME	USA	Pipe
SB-622 R30556	ASME	USA	Pipe and Tube

**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.

**ONE STOP SOLUTION FOR METAL PARTS**