



## Material - ASTM B 435 R30556

**Standard Specification for Nickel and Nickel-Cobalt Alloy Plate, Sheet and Strip**

**Group - Non-Ferrous Nickel Alloys**

**Sub Group - ASTM B 435 R30556 Nickel and Nickel-Cobalt 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			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 472 R30566	ASTM	USA	Billets and Bars for Reforging
B 572 R30566	ASTM	USA	Rod
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)**

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