

Material: ASTM B 622 R30556

Standard Specification for Seamless Nickel and Nickel-Cobalt Alloy Pipe and Tube

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 622 R30556 Seamless Nickel and Nickel-Cobalt Alloy Pipe and Tube

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

Grade Belongs to the Industry: Pipe and Tube

Chemical Composition		
Carbon	C %	0.050 - 0.150
Silicon	Si %	0.200 - 0.800
Manganese	Mn %	0.500 - 2.000
Chromium	Cr %	21.000 - 23.000
Sulphur	S %	0.015 max.
Molybdenum	Mo %	2.500 - 4.000
Phosphorus	P %	0.040 max.
Cobalt	Co %	16.000 - 21.000
Aluminium	Al %	0.100 - 0.500
Lanthanum	La %	0.005 - 0.100
Boron	B %	0.020 max.
Niobium	Nb %	0.030 max.
Tantalum	Ta %	0.300 - 1.250
Nitrogen	N %	0.100 - 0.300
Tungsten	W %	2.000 - 3.500

Chemical Composition		
Zirconium	Zr %	0.001 - 0.100
Nickel	Ni %	19.000 -
Iron	Fe %	Balance
-	-	-
-	-	-
Heat Treatment		
As-Cast or Annealing or Age Hardning		
Mechanical Properties		
Tensile Strength in Mpa	690 min.	
Yield Strength in Mpa	310 min.	
Elongation in %	40 min.	
Reduction of Area in %	-	
Hardness in BHN	-	
Impact in Joule	-	

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 619 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
B 572 R30566	ASTM	USA	Rod
SB-619 R30556	ASME	USA	Pipe
SB-622 R30556	ASME	USA	Pipe and Tube

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