



## Material - ASTM B 535 N08330

### Standard Specification for Nickel-Iron-Chromium-Silicon Alloys Seamless Pipe and Tube

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 535 N08330 Nickel-Iron-Chromium-Silicon Alloys Seamless Pipe and Tube

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

Grade Belongs to the Industry - Pipe and Tube

Chemical Composition			Heat Treatment			
Carbon	C %	0.080 max.	As-Cast or Annealing or Age Hardning			
Silicon	Si %	0.750 - 1.500				
Manganese	Mn %	2.000 max.				
Chromium	Cr %	17.000 - 20.000				
Sulphur	S %	0.030 max.				
Copper	Cu %	1.000 max.				
Phosphorus	P %	0.030 max.				
Nickel	Ni %	34.000 - 37.000				
Lead	Pb %	0.005 max.				
Tin	Sn %	0.025 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	483 min.		
-	-	-	Yield Strength in Mpa	207 min.		
-	-	-	Elongation in %	30 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in HRC	70 - 90		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 511 N08330	ASTM	USA	Bar and Shape
B 512 N08330	ASTM	USA	Billets and Bar
B 536 N08330	ASTM	USA	Plate, Sheet and Strip
B 710 N08330	ASTM	USA	Pipe
B 739 N08330	ASTM	USA	Tube
SB-511 N08330	ASME	USA	Bar and Shape
SB-535 N08330	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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