



## Material - ASTM B 511 N08330

### Standard Specification for Nickel-Iron-Chromium-Silicon Alloy Bars and Shapes

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 511 N08330 Nickel-Iron-Chromium-Silicon Alloy Bars and Shapes

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

Grade Belongs to the Industry - Bar and Shape

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	<b>Mechanical Properties</b> Tensile Strength in Mpa   485 min. Yield Strength in Mpa   210 min. Elongation in %   30 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
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-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 512 N08330	ASTM	USA	Billets and Bar
B 535 N08330	ASTM	USA	Pipe and Tube
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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