

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		
Carbon	C %	0.080 max.
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
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	-

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

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