



Material - ASME SB-511 N08332

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

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-511 N08332 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 %	0.050 - 0.100	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.		
Lead	Pb %	0.005 max.		
Phosphorus	P %	0.030 max.		
Copper	Cu %	1.000 max.		
Tin	Sn %	0.025 max.		
Nickel	Ni %	34.000 - 37.000		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Mechanical Properties	
Tensile Strength in Mpa	462 min.
Yield Strength in Mpa	186 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in HRB	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 511 N08332	ASTM	USA	Bar and Shape
B 535 N08332	ASTM	USA	Pipe and Tube
B 536 N08332	ASTM	USA	Plate, Sheet and Strip
B 739 N08332	ASTM	USA	Tube
B 546 N08332	ASTM	USA	Pipe
SB-535 N08332	ASME	USA	Pipe and Tube
SB-536 N08332	ASME	USA	Plate, Sheet and Strip

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.