

Material: ASTM A 968 S70003

Standard Specification for Chromium, Chromium-Nickel, and Silicon Alloy Steel Bars and Shapes for Corrosion and Heat-Resisting Service

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM A 968 S70003 Chromium, Chromium-Nickel, and Silicon Alloy Steel Bars and Shapes for Corrosion and Heat-Resisting Service

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 %	0.020 max.	
Silicon	Si %	6.500 - 8.000	
Manganese	Mn %	2.000 max.	
Chromium	Cr %	8.000 - 11.000	
Sulphur	S %	0.010 max.	
Molybdenum	Mo %	0.500 max.	
Phosphorus	P %	0.025 max.	
Nickel	Ni %	22.000 - 25.000	
-	-	-	As-Cast or Annealing or Age Hardning
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
			Tensile Strength in Mpa
			540 min.
			Yield Strength in Mpa
			240 min.
			Elongation in %
			40 min.
			Reduction of Area in %
			-
			Hardness in BHN
			95 max.
			Impact in Joule
			-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 946 Grade S70003	ASTM	USA	Plate, Sheet and Strip
A 953 S70003	ASTM	USA	Tube
A 954 S70003	ASTM	USA	Pipe
1.439	DIN	Germany	Plate, Sheet and Strip
X 1 NiCrSi 24-9-7	DIN	Germany	Plate, Sheet and Strip
S70003	UNS	USA	Plate, Sheet and Strip
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