

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.	As-Cast or Annealing or Age Hardning	
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		
-	-	-	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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