



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - ASTM A 953 S70003

Standard Specification for Austenitic Chromium-Nickel-Silicon Alloy Steel Seamless Tubing

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM A 953 S70003 Austenitic Chromium-Nickel-Silicon Alloy Steel Seamless Tubing

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

Grade Belongs to the Industry - Tube

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 HRC	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 954 S70003	ASTM	USA	Pipe
A 968 S70003	ASTM	USA	Bars and Shapes
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
-	-	-	-

**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)**

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.

**ONE STOP SOLUTION FOR METAL PARTS**