



# SHREEMARUTI INSTRUMENTS PVT. LTD.

Factory : Royal Industrial Hub, Plot-15 Survey No. 30 + 31 + 2/2/2/ NH-8 Road, Opp. Jai RF, Vapi-3 96191  
Regd. Office: Flat No. 73/9, Bldg. No. 73, Gudge House, 5th Kumbharwada, Maruti Mandir, Mumbai-4000 04  
Cell No. 09825656785, Tel: +91-. 8799225116 Email: info@smiplvapi.com Website: www.smiplvapi. com  
GST NO : 24AAVCS9156K1ZH

Manufacturer & Exporters of Valves Manifolds & Tube Fittings Ball Valve Needle Valves Pressure Gauge Accessories

## SMIPL Tubes Data Sheet

### STAINLESS ASTM/ASME SPECIFICATIONS

**Product Name:** Stainless ASTM/ASME Specifications A269 Seamless Tubes

**Material:** Stainless Steel

**Standard:** ASTM A269 / ASME SA269

**Description:** ASTM A269 Seamless Tubes are stainless steel tubes that are produced through cold working processes without the addition of filler metal. These tubes are designed for general corrosion-resisting and low or high-temperature services. They are commonly used in industries such as chemical, petrochemical, food processing, pharmaceutical, and others where corrosion resistance and high-quality surface finish are critical.

#### A269 Seamless Tubes

Size Inches	Tolerances, Inches			
	OD, Inches	Wall	Ovality 2 x Tol., In.	Cut Length (b), In.
Less than 1/2	±0.005	±15%	—	+1/8 -0
Over 1/2 to 1-1/2	±0.005	±10%	-0.065	
Over 1-1/2 to 3-1/2	±0.010	±10%	-0.095	+3/16 -0
Over 3-1/2 to 5-1/2	±0.015	±10%	-0.150	
Over 5-1/2 to 8	±0.030	±10%	—	

- **Specifications: Size Range:** Outer Diameter: 1/8" (3.2 mm) to 12" (304.8 mm) Wall Thickness: 0.015" (0.4 mm) to 0.5" (12.7 mm)
- **Length:** Standard Lengths: 20 feet (6.1 meters) Custom Lengths: Available upon request
  - **Material Grades:**
    - Austenitic Stainless Steels: 304, 304L, 316, 316L, 321, 347
    - Duplex Stainless Steels: UNS S31803, UNS S32205

EIL, ISO9001-2015, ISO14001-2015, OHSAS 18001-2007, CE MARKING, PED 2014/68/EUSEP, NSIC, MSVE, Approved and Startup India Certified Corporate House & Many More.

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## Features:

- **Corrosion Resistance:** These tubes offer excellent resistance to corrosion in various environments including acids, alkalis, and chloride-containing media.
- **High Strength:** The seamless construction provides higher strength compared to welded tubes, making them suitable for high-pressure applications.
- **Surface Finish:** ASTM A269 Seamless Tubes are available in a variety of surface finishes including annealed and pickled, bright annealed, and polished finishes to meet specific application requirements.

## Applications:

- **Chemical and Petrochemical Industries:** Used in processing equipment, pipelines, and heat exchangers.
- **Food and Beverage Processing:** Suitable for use in dairy, brewing, and food processing equipment.
- **Pharmaceutical Industry:** Commonly used in pharmaceutical manufacturing equipment and cleanroom environments.
  - **Oil and Gas Industry:** Employed in offshore platforms, refineries, and pipelines for corrosion-resistant applications.

Flaring, Flattening for seamless tubes. Hardness: Rockwell B90 or BHN 200 maximum  
Hydrotest: At 3000 PSI

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## SMIPL Tubes PRESSURE RATINGS

Tube O.D. (mm)	Nominal Wall Thickness, mm													
	0.8	1.0	1.2	1.5	1.8	2.0	2.2	2.5	2.8	3.0	3.5	4.0	4.5	4.5
	Working Pressure, bar													
3	670													
6	310	420	540	710										
8		310	390	520										
10		240	300	400	510	580								
12		200	250	330	410	470								
14		160	200	270	340	380	430							
15		150	190	250	310	360	400							
16			170	230	290	330	370	400						
18			150	200	260	290	320	370						
20			140	180	230	260	290	330	380					
22			140	160	200	230	260	300	340					
25					180	200	230	260	290	320				
28						180	200	230	260	280	330			
30						170	180	210	240	260	310			
32						160	170	200	220	240	290	330		
38							140	160	190	200	240	270	310	

### PRODUCT IDENTITY: Stainless Steel Tubes

#### SECTION: I

#### Packaging:

ASTM A269 Seamless Tubes are carefully packed to prevent damage during transportation. Standard packaging includes wooden cases or bundles strapped with plastic strips.

Stainless Steel Alloys: Type 304, Type 304L, Type 316, Type 316L

#### PRODUCT USE:

Stainless steel tubing for general corrosion-resisting and low- or high-temperature service, boiler, superheater, heat exchanger, condenser tubes, dairy and food industry, and mechanical applications.

#### SECTION: II

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## COMPOSITION/INFORMATION ON INGREDIENTS:

ELEMENT	CAS No.	PERCENTAGE	ACGIH-TLV (mg/m3)	OSHA-PEL (mg/m3)
IRON (Fe)	7439-89-6	balance	5/ Oxide Dust	10/ Oxide Dust
Carbon (C)	7440-44-0	0.12% (max.)	N/A	N/A
Manganese (Mn)	7439-96-5	2.00% (max.)	0.2/ Elemental Mn	5 /Fume
Phosphorus (P)	7723-14-0	0.045% (max.)	0.1/ Phosphorus	0.1/Phosphorus
Sulfur (S)	7446-09-5	0.030% (max.)	5.2 /Sulfur Dioxide 13 /Sulfur Dioxide (STEEL)	13 /Sulfur Dioxide
Silicon (Si)	7440-21-3	1.00% (max.)	10 /Dust	15 /Dust
Chromium (Cr)	7440-47-3	10%~20%	0.5 /Metal	1 /Metal
Nickel (Ni)	7440-02-0	0%~20%	1.5 /Metal	1 /Metal and Insoluble Compounds
Molybdenum (Mo)	7439-98-7	0%~3.0%	10 /Insoluble Compounds	15 /Insoluble Compounds

ACGIH: American Conference of Industrial Hygienists

OSHA: Occupational Safety & Health Administration

STEL: Short Term Exposure Limit

NOTE: No Permissible Exposure Limit (PEL) or Threshold Limit Values (TLV) exist for steel. The above listing is a summary of elements used in stainless steel products.

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## SECTION: III

### PHYSICAL AND CHEMICAL PROPERTIES

Melting Point: Approximately 1400°C to 1510°C  
(2552°F~2750°F)

Specific Gravity: 7.5 to 8.5 g/cc

Vapour Pressure: Not Applicable

Boiling Point: Not Applicable

Stainless Steel is a shiny silver-grey colored metallic solid, it has no odor and is not soluble in water

## SECTION: IV

**HAZARDS IDENTIFICATION** Non-hazardous for GHS

### FIRST AID MEASURES

Skin contact: Harmless on skin. If cut, must be got medical attention.

### FIRE-FIGHTING MEASURES

Non-specific

**ACCIDENTAL RELEASE MEASURES** None

### DISPOSAL AND STORAGE

No special disposal method and storage environment requirement

### EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control: No requirement Personal Protective Equipment Hand ware: common gloves

### STABILITY AND REACTIVITY

Stability: Stable and indecomposable Improper manoeuvre would cause bodily harm.

### TOXICOLOGICAL INFORMATION

Non-toxic.

### ECOLOGICAL INFORMATION

Suspicious ecological effects:

1. Non-accumulation
2. Non-environmental degradation

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## TRANSPORT INFORMATION

Non-hazardous for air, sea and road freight.

## OTHER INFORMATION

Special precautions should be taken when handling, cutting, welding, burning, and other operations that may result in fumes or dust. When welding or burning, an arc or spark could be a source of ignition.

### ➤ **Quality Assurance:**

All ASTM A269 Seamless Tubes are manufactured according to the relevant ASTM/ASME specifications and undergo rigorous quality control measures to ensure dimensional accuracy, surface finish, and mechanical properties.

### ➤ **Certifications:**

- Mill Test Certificates (MTC) according to EN 10204/3.1 or 3.2
- Material Test Reports (MTR)
- Third-party inspection reports upon request

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