Stainless Steel Tubing

Hi-EFF™ Tubing

Hi-EFF™ grade stainless steel tubing is especially tempered for easy bending and is washed with acetone to remove any residual materials. Type 316 is recommended for plumbing LC systems.

Stainless Steel Tubing

This Stainless Steel Tubing is the same high quality as the Hi-EFF™ grade, but has not been washed with acetone. Type 316 is recommended for LC use.

5562

related product

Looking for tubing cutters?

Refer to page 391.

Hi-EFF™ and Standard Stainless Steel Tubing Specifications	
Material:	300 Series Stainless Steel
Maximum Temperature:	500°C
Maximum Pressure:	Varies according to i.d.
Typical Use:	High-Pressure Plumbing

Stainless Steel Tubing

		o.d.	i.d.	10ft (3m)* Part No.	25ft (7.5m)* Part No.	50ft (15m)* Coil Part No.	200ft Coil Part No.
Hi-EFF™	*Type 316 Stainless Steel*	1/8" (3.18mm)	0.085" (2.16mm)	**5141338**	**5141342**	**30109**	**—**
		1/4" (6.35mm)	0.210" (5.33mm)	**5141337**	**5141343**	**30309**	**—**
	Type 304 Stainless Steel	1/8" (3.18mm)	0.085" (2.16mm)	**5141336**	**5141344**	**30106**	**—**
		1/4" (6.35mm)	0.210" (5.33mm)	**5141335**	**5141345**	**30306**	**—**
Standard	*Type 316 Stainless Steel*	1/32" (0.79mm)	0.007" (0.18mm)	**5141387**	**5141320**	**81951**	**—**
		1/16" (1.59mm)	0.004" (0.10mm)	**5141386**	**5141321**	**30212**	**—**
			0.007" (0.18mm)	**5141385**	**5141322**	**30142**	**—**
			0.010" (0.25mm)	**5141384**	**5141323**	**3005**	**30052**
			0.020" (0.51mm)	**5141383**	**5141324**	**3002**	**300220**
			0.030" (0.76mm)	**5141382**	**5141325**	**3000**	**300020**
			0.040" (1.02mm)	**5141381**	**5141326**	**3003**	**—**
			0.050" (1.27mm)	**5141380**	**5141327**	**3004**	**—**
	Type 304 Stainless Steel	1/8" (3.18mm)	0.085 (2.16mm)	**5141346**	**5141410**	**3010**	**30108**
		3/16" (4.76mm)	0.147" (3.73mm)	**5141332**	**5141413**	**3020**	**—**
		1/4" (6.35mm)	0.210" (5.33mm)	**5141333**	**5141412**	**3030**	**—**
		3/8" (9.53mm)	0.305" (7.75mm)	**5141334**	**5141411**	**3032†**	**—**

*Meters based on closest estimate; feet being exact. †40' coil.

Stainless Steel Tubing

AT™ Steel—Activity Tested Steel Tubing

Delivers the Strength of Stainless Steel and the Inertness of Deactivated Fused Silica

- Flexible, and strong
- Maximum temperature limit of 340°C–350°C


5105

A combination of chemical vapor deposition techniques and silicone chemistries transform durable stainless steel tubing into a chromatographically inert material. AT™ Steel activity tested steel tubing is suitable for sample loops, transfer lines, capillary, and packed GC columns.

AT™ Steel may be cut with standard tubing cutters or high speed wheel cutters and can be rinsed with common solvents to remove particulates and contamination that have built up during use. To ensure a truly inert pathway, use AT™ Steel treated fittings. Sold separately below.

AT™ Steel Tubing

i.d.	6ft Length Part No.	25ft Length Part No.	50ft Length Part No.	100ft Length Part No.
1/16" o.d. Tubing				
0.010"	**11060**	**11061**	**11062**	**11063**
0.020"	**11064**	**11065**	**11066**	**11067**
0.030"	**11068**	**11069**	**11070**	**11071**
0.040"	**11072**	**11073**	**11074**	**—**
1/8" o.d. Tubing				
0.085"	**11076**	**11077**	**11078**	**—**

Straight Stainless Steel Tubing

- Type 304 Stainless Steel
- 6ft or 10ft lengths


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Straight Stainless Steel Tubing

o.d.	i.d.	Length*	Qty.	Part No.
1/8" (3.18mm)	0.085" (2.16mm)	6ft	10	**30106ST**
1/8" (3.18mm)	0.085" (2.16mm)	10ft	10	**301010ST**
1/4" (6.35mm)	0.210" (5.33mm)	6ft	10	**30306ST**
1/4" (6.35mm)	0.210" (5.33mm)	10ft	10	**303010ST**

*10ft lengths must ship via motor freight.

PTFE-Coated Stainless Steel Tubing

- Sturdy SS tube with 0.001" thick PTFE coating
- Must be preconditioned at 250°C for three hours


5103

PTFE-Coated Stainless Steel Tubing

o.d.	i.d.	Length	Part No.
1/8" (3.18mm)	0.085" (2.16mm)	50ft	**3142**
1/4" (6.35mm)	0.210" (5.33mm)	50ft	**3144**

*Minimum tubing order is 3ft.

tubing

tech tip

Choosing a tubing material for GC analysis.

A number of options are available for packed column tubing. The most inert material is glass, which should be used for active compounds. Glass-lined tubing and AT™ Steel provide the inert surface of glass combined with the mechanical strength of a metal column.

Metal tubing provides an economical and rugged column for suitable application. Passivated nickel tubing can frequently be used with active compounds such as phenols and amines. Stainless steel tubing is recommended for hydrocarbon, fixed gas, and solvent analyses where column inertness is less of a concern.

PTFE tubing is extremely inert, but due to temperature limitations and poor column efficiency, PTFE is generally only recommended for the analysis of corrosive gases which are too reactive for glass.