

Biocompatible UHPLC Tubing

PEEK™-Lined Stainless Steel Tubing for Bio-UHPLC



IDEX Health & Science introduces NEW PEEK-Lined Stainless Steel (PLS) Tubing for biocompatible UHPLC applications. The tubing combines the strength of industry-standard 316 Stainless Steel with the chemical inertness of PEEK polymer to enable more efficient bio-separations at pressures up to 17,400 psi (1,200 bar).

Wide Assortment of IDs Available

At the heart of PLS Tubing is specially-extruded Upchurch Scientific® PEEK tubing in a wide assortment of inner diameters, ranging from 25 µm ID to 254 µm ID.

Designed to Work with VHP Fittings

PLS Tubing achieves its maximum performance of 17,400 psi (1,200 bar) when used with Upchurch Scientific VHP Fittings. The standard configuration of this tubing automatically pairs a length of tubing with two VHP-325 fittings, which allow repeat connections at UHPLC pressures. (PLS Tubing is also available without fittings to allow the tubing to be paired with different polymer-based fittings; however, the use of other fittings may reduce the overall performance capabilities of PLS Tubing. Please contact us for more information and guidelines on proper use of the tubing.)

Available in a Variety of Lengths

To accommodate the various connections that are required in the “high pressure” zone of today’s UHPLC systems, PLS Tubing will be available in a number of “off-the-shelf” lengths. (Custom lengths of PLS Tubing are also available — contact us for more information.)

Strong Yet Flexible

The unique design features of PLS Tubing allow it to be bent into shapes that may be required by the system equipment — including angled bends and even sample loops for the injection valve — all with no loss of performance. Even in a bent shape, the PEEK lining maintains its integrity along the entire length.

PEEK-Lined Stainless Steel (PLS) Tubing “Smart” Numbering System: UP-{OD}{ID}{Length}

{OD}	{ID}	{Length}
6 (for 1/16")	025 (for 25 µm)	100 (for 100 mm)
	050 (for 50 µm)	200 (for 200 mm)
	075 (for 75 µm)	300 (for 300 mm)
	100 (for 100 µm)	
	125 (for 125 µm)	
	175 (for 175 µm)	
	254 (for 254 µm)	

Example PLS Tubing Part Numbers

UP-6025300	PEEK Lined SS 1/16 × 25 µm × 300 mm
UP-6050300	PEEK Lined SS 1/16 × 50 µm × 300 mm
UP-6075300	PEEK Lined SS 1/16 × 75 µm × 300 mm
UP-6100300	PEEK Lined SS 1/16 × 100 µm × 300 mm
UP-6125300	PEEK Lined SS 1/16 × 125 µm × 300 mm
UP-6175300	PEEK Lined SS 1/16 × 175 µm × 300 mm
UP-6254300	PEEK Lined SS 1/16 × 254 µm × 300 mm



PEEK-Lined Stainless Steel Tubing, shown with and without VHP Fittings.

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IDX1826-1-PD/07.2013

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