

# Capillary GC Columns and Guard Columns/Retention Gaps

Columns by Phase Polarity *Polar*

## SUPELCO<sup>®</sup> 10 Capillary GC Column

**Application:** This column is based on one of the most widely used polar phases, Carbowax 20M, and is a polar column suitable for analyses of solvents, fatty acid methyl esters (FAMES), food, flavor and fragrance compounds, alcohols, and aromatics. Additionally, this column is a great choice when a polar general purpose column is required.

**USP Code:** This column meets USP G16 requirements.

**Phase:**

- Bonded
- Poly(ethylene glycol)

**Temp. Limits:**

- ≤0.32 mm I.D.: 35 °C to 280 °C (isothermal or programmed)
- ≥0.53 mm I.D., <2 μm: 35 °C to 280 °C (isothermal or programmed)
- ≥0.53 mm I.D., ≥2 μm: 35 °C to 250 °C (isothermal or programmed)

I.D. (mm)	d <sub>f</sub> (μm)	Length (m)	Beta Value	Cat. No.	Qty	
0.10	0.10	5	250	25025-U	1 ea	
	0.10	10	250	25026-U	1 ea	
	0.10	15	250	24343	1 ea	
0.20	0.20	30	250	24169	1 ea	
	0.20	60	250	24170	1 ea	
	0.25	15	250	24077	1 ea	
0.25	0.25	30	250	24079	1 ea	
	0.25	60	250	24081	1 ea	
	0.25	100	250	23308-U	1 ea	
	0.50	30	125	24284	1 ea	
	0.50	60	125	24285-U	1 ea	
	0.32	0.25	15	320	24078	1 ea
		0.25	30	320	24080-U	1 ea
0.25		60	320	24082	1 ea	
0.50		15	160	24083	1 ea	
0.50		30	160	24084	1 ea	
0.50		60	160	24085-U	1 ea	
1.00		30	80	24211	1 ea	
0.53	0.50	60	80	24212	1 ea	
	0.50	15	265	25324	1 ea	
0.53	0.50	30	265	25325	1 ea	
	0.50	60	265	25385	1 ea	
	1.00	15	133	25300-U	1 ea	
	1.00	30	133	25301-U	1 ea	
	1.00	60	133	25391	1 ea	
	2.00	30	66	25375-U	1 ea	
	2.00	60	66	25376	1 ea	
	0.75	1.00	30	188	23327-U	1 ea

**NEW PRODUCTS**

## SLB<sup>®</sup>-IL59 Capillary GC Column

**Application:** This polar ionic liquid column has a polarity/selectivity similar to that of polyethylene glycol (PEG) columns (usually have 'wax' in the product name), but with a higher maximum temperature (300 °C compared to 270-280 °C). This increased temperature allows faster analyses to be achieved and/or additional analytes with higher boiling points to be analyzed. This combination of a high thermal limit and an orthogonal selectivity to non-polar columns also makes it a good GCxGC column choice. Launched in 2009.

**USP Code:** None

**Phase:**

- Non-bonded
- 1,12-Di(triethylphosphonium)dodecane bis(trifluoromethylsulfonyl)imide

**Temp. Limits:**

- Subambient to 300 °C (isothermal or programmed)

I.D. (mm)	d <sub>f</sub> (μm)	Length (m)	Beta Value	Cat. No.	Qty
0.10	0.08	15	313	28880-U	1 ea
0.25	0.20	30	313	28891-U	1 ea

**NEW PRODUCTS**

## SLB<sup>®</sup>-IL60 Capillary GC Column

**Application:** The SLB-IL60 polar ionic liquid column has a polarity/selectivity similar to that of polyethylene glycol (PEG) columns (usually have 'wax' in the product name), but different enough to provide a unique elution pattern. It also has a higher maximum temperature of 300 °C, compared to 250-280 °C for most PEG columns. These features make it an excellent alternative to existing 'wax' columns. The combination of a high thermal limit and an orthogonal selectivity to non-polar columns also makes it a good GCxGC column choice. Launched in 2012.

**USP Code:** None

**Phase:**

- Non-bonded
- 1,12-Di(triethylphosphonium)dodecane bis(trifluoromethylsulfonyl)imide

**Temp. Limits:**

- 35 °C to 300 °C (isothermal or programmed)

I.D. (mm)	d <sub>f</sub> (μm)	Length (m)	Beta Value	Cat. No.	Qty
0.25	0.20	30	313	29505-U	1 ea

**NEW PRODUCTS**

## SLB<sup>®</sup>-IL61 Capillary GC Column

**Application:** This polar column, the first of our third generation ionic liquid columns, has a polarity/selectivity close to that of the SLB-IL59 due to structural similarities. This column has a polarity/selectivity similar to that of polyethylene glycol (PEG) columns (usually have 'wax' in the product name), but with a higher maximum temperature (290 °C compared to 270-280 °C). Launched in 2010.

**USP Code:** None

**Phase:**

- Non-bonded
- 1,12-Di(triethylphosphonium)dodecane bis(trifluoromethylsulfonyl)imide trifluoromethylsulfonate

**Temp. Limits:**

- 40 °C to 290 °C (isothermal or programmed)

I.D. (mm)	d <sub>f</sub> (μm)	Length (m)	Beta Value	Cat. No.	Qty
0.10	0.08	15	313	29484-U	1 ea
0.25	0.20	30	313	29486-U	1 ea