

Restek Stock CarboBlack™ Columns

Cat.#	Description	Max. Temp.
80105	5% Carbowax® 20M 80/120 CarboBlack™ B	230°C
80106	5% Carbowax® 20M 60/80 CarboBlack™ B	230°C
80107	6.6% Carbowax® 20M 80/120 CarboBlack™ B	230°C
80111	0.3% Carbowax® 20M 0.1% H3PO4 60/80 CarboBlack™ C	230°C
80116	4% Carbowax® 20M, 0.8% KOH 60/80 CarboBlack™ B	230°C
80121	0.2% Carbowax® 1500 60/80 CarboBlack™ C	175°C
80122	0.2% Carbowax® 1500 80/100 CarboBlack™ C	175°C
80205	0.1% RT 1000 80/100 CarboBlack™ C	250°C
80206	1% RT 1000 60/80 CarboBlack™ B	250°C
80207	1% RT 1000 60/80 CarboBlack™ B	250°C
80211	3% RT 1500 80/120 CarboBlack™ B	230°C
80216	1% RT 1510 60/80 CarboBlack™ B	250°C
80305	1.5% XE 60 1% H3PO4 60/80 CarboBlack™ B	250°C
80311	0.19% Picric Acid 80/100 CarboBlack™ C	125°C
80321	0.8% THEED 80/100 CarboBlack™ C	125°C

Note: All stock CarboBlack™ columns are pre-conditioned and ready to use after a brief stabilization period (typically less than 30 min.), and have a 2-inch void on the inlet to facilitate the recommended on-column injection.

Installation Instructions

On-column Injection

1. Connect the column to the injector by using the Restek Universal On-column Inlet Adaptor Kit (cat.# 21651 for 1/8-inch x 2mm ID columns or cat.# 21650 for 4mm ID columns) or the instrument manufacturers inlet adaptor.
2. Connect the column to the detector using the appropriate adaptor fittings.
3. Turn on the carrier gas and establish proper flow for your application. Purge the column for 10 minutes at ambient.
4. Elevate to operating temperature. **Caution:** Do not exceed the column's maximum operating temperature listed above.

Working with CarboBlack™

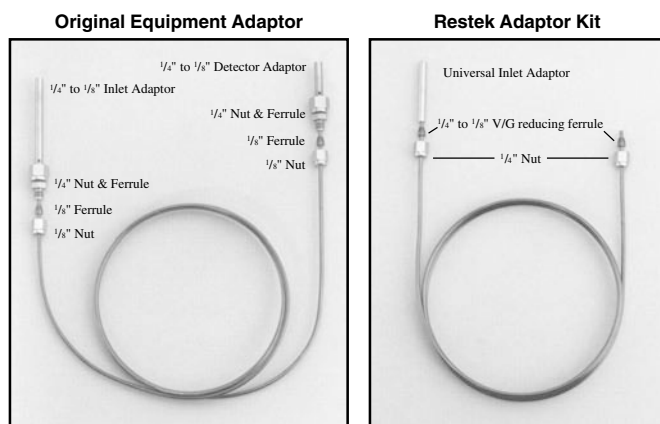
Handling: Columns may be bent carefully to facilitate installation in various instruments. Avoid sharp 90° bends, which will fracture the carbon particles.

Sample Size: CarboBlack™ columns may be overloaded easily. Neat sample sizes should be in the range of .05µL to 0.2µL on-column. If diluted samples are injected, do not exceed 70µg on-column for CarboBlack™ B and 35µg for CarboBlack™ C.

Column Removal and Septa Changing: Lower oven temperature to ambient. Turn off the carrier gas. Be certain there is no backpressure on the column before removing the column and/or septa, or packing expulsion will result.

Detector and Injector Temperatures: Some column installations will permit the packing material to enter the heated zones. Be certain these zone temperatures do not exceed the upper temperature limit of the liquid phase.

Column Back Pressure: Expect slightly higher backpressures when using CarboBlack™ as compared to diatomite columns. Pressures listed below are typical for a 2m x 2mm ID CarboBlack™ or Silcoport™ packed column.



80/100	Silcoport™	12-15 psig @ 30°C, for 20mL/min. N ₂
100/120	Silcoport™	13-18 psig @ 30°C, for 20mL/min. N ₂
80/100	CarboBlack™ C	22-26 psig @ 30°C, for 20mL/min. N ₂
80/120	CarboBlack™ B	28-33 psig @ 30°C, for 20mL/min. N ₂
60/80	CarboBlack™ B	10-15 psig @ 30°C, for 20mL/min. N ₂
60/80	CarboBlack™ C	15-22 psig @ 30°C, for 20mL/min. N ₂

Call Technical Service at 800-356-1688 or 814-353-1300, ext. 4 (or your local Restek representative) if you have any questions about this product or any other Restek product.



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