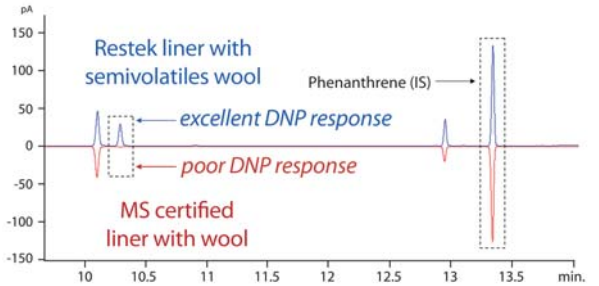
Semivolatiles Wool

The new deactivation used on this wool gives it superior inertness for semivolatiles analysis. Acidic semivolatile compounds, such as 2,4-dinitrophenol (DNP), are reactive and can be difficult to quantify with wool packed in the inlet liner. With this innovative deactivation, the response of DNP is excellent and an improvement over deactivations offered by competitors (Figure 1). For example, the test shown here resulted in a DNP response factor of 0.21 (calculated relative to the internal standard), easily meeting the EPA Method 8270D criterion of 0.01. In contrast, the competitive "MS Certified Liner with Wool" showed virtually no response.

Figure 1 Response of 10 ng of 2,4-dinitrophenol compared to phenanthrene using a flame ionization detector.



To order Semivolatiles Wool in prepacked liners, add the corresponding suffix number to the liner catalog number.

qty.	IP Deactivated Liner with Semivolatiles Wool		
each	-231.1	$16	addl. cost
5-pk.	-231.5	$31	addl. cost
25-pk.	-231.25	$81	addl. cost

Deactivated Wool

- More inert than our traditional fused silica wool.
- Use to vaporize a sample in a liner prior to introduction into a capillary column.

Description	qty.	cat.#	price
Deactivated Wool	10 grams	24324	

Base-Deactivated Wool

Ideal for amines and other basic compounds.

Description	qty.	cat.#	price
Base-Deactivated Wool	10 grams	20999	

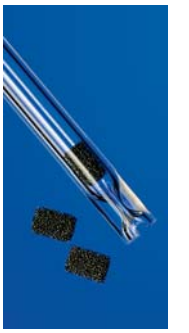
Prepacked Inlet Liners

Let Restek do the work! Just add the appropriate suffix to the liner catalog number.

qty.	Wool	CarboFrit†	price
ea.	-200.1	-209.1	addl. cost
5-pk.	-200.5	-209.5	addl. cost
25-pk.	-200.25	-209.25	addl. cost

†CarboFrit inserts require a neck greater than 2mm.

CarboFrit® Inlet Liner Packing Material



- Highly inert.
- Extends analytical column lifetime.
- Enhances reproducibility of split and splitless injection.
- Uniform pore size and consistent packing density guarantee consistent flow through the liner.
- Easy to install in any liner with an ID >3.5 mm when using puller-inserter tool listed below.*

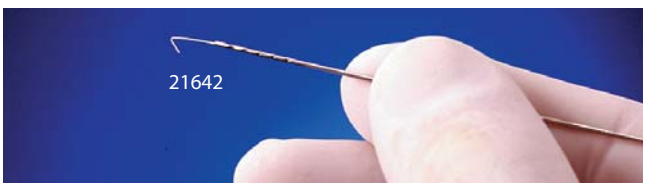
Add the corresponding suffix number to the liner catalog number.

Description	suffix	price	
each	-209.1		addl. cost
5-pk.	-209.5		addl. cost
25-pk.	-209.25		addl. cost

*Liners with IDs less than 3.5mm are difficult to pack. We will pack them on a custom basis (minimum neck ID of 2mm required).

Replacement CarboFrit® Inserts

Description	qty.	cat. #	price
Frits for liner ID ≤4mm	10-pk.	20295	
Frits for liner ID >4mm	10-pk.	20294	



CarboFrit® Puller/Inserter Tool

- Hook end for removing CarboFrit® inserts.
- Bent end (90°) for inserting CarboFrit® inserts.

Description	qty.	cat.#	price
CarboFrit Puller/Inserter Tool	ea.	21642	

tech tip

Use of Packings with Autosampler

We recommend using an injection port liner with wool or CarboFrit® packing when making injections with an autosampler. If there is no packing material in the liner, the solvent droplets act like water on a hot iron: they bounce around until vaporized (Leidenfrost phenomenon). Because autosamplers make rapid injections, samples can be incompletely vaporized, leading to nonreproducible peak response and tailing. You can prevent this by using wool or CarboFrit® packing material in the splitless liner, to provide a surface for the solvent droplets to "sit" on until the heat from the injector vaporizes them.