Product Information

February 2026

Regeneration of GC Liners

You replace your liners on a regular basis to avoid adsorption of the sample;but what to do with the replaced liners then?
Send us your contaminated liners: We clean and deactivate them!
.... and what exactly do we do?

At first, we clean the liners, including removing all remaining deposition on the inner surface mechanically. Then the liners are washed and dried. After that, the cleaned liners are deactivated with the well established Sil-, the modified (phenyl methyl) PM-Sil-, or the high quality INNO-Sil procedure. To avoid adsorption points, liners are deactivated after inserting the glass wool. After a gentle secondary cleaning and conditioning, the liners are ready for direct use.

Before

After

Please note: This procedure is also applicable to Siltek-and Sky-Liners!

Standard- and INNO-Sil deactivation can be applied to all types of glass surfaces. CS offers both procedures for GC liners, glass wool and glass vial.

INNO-Sil is a premium deactivation procedure. It provides highest inertness of the glass surface and avoids adsorption also with sensitive analytes like e.g. pesticides, amines, steroids, and phenolic compounds.

CS - Chromatographie Service GmbH, Am Parir 27, 52379 Langerwehe/Germany
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Product Information

February 2026

P/N	Description
1005031	**Liner Regeneration Sil Plus** Cleaning – Sil Deactivation – Conditioning
1005036	**Liner Regeneration PM-Sil Plus** Cleaning – PM-Sil Deactivation – Conditioning
1005032	**Liner Regeneration INNO-Sil Plus** Cleaning – INNO-Sil® Deactivation – Conditioning
1005034	**Liner Regeneration GW Sil Plus** Cleaning – Inserting Sil Glass Wool – Sil Deactivation – Conditioning
1005037	**Liner Regeneration GW PM-Sil Plus** Cleaning – Inserting Sil Glass Wool – PM-Sil Deactivation – Conditioning
1005035	**Liner Regeneration GW INNO-Sil Plus** Cleaning – Inserting INNO-Sil Glass Wool – INNO-Sil Deactivation – Conditioning

In case of extreme contamination of the liners, additional costs may arise based on additional non-standard efforts needed for cleaning. If required, these costs will be added and announced in our order confirmation.
For the insertion of silanized glass wool in liners with special liner design (e. g. small Double Gooseneck), additional costs may arise based on additional non-standard efforts. If required, these costs will be added and announced in our order confirmation..

On request, we will fill liners with packing materials or carbofrits of your choice.
Please ask for an individual offer.

We assume no liability for liner breakage during shipment!

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Regeneration of GC Liners – Order Form 02/2026

Address (Stamp):

_____

_____

_____

Cust. Code: _____

Contact: _____

Order No.: _____

P/N	Description
1005031	**Liner Regeneration Sil Plus** Cleaning – Sil Deactivation – Conditioning
1005036	**Liner Regeneration PM-Sil Plus** Cleaning – PM-Sil Deactivation – Conditioning
1005032	**Liner Regeneration INNO-Sil Plus** Cleaning – INNO-Sil® Deactivation – Conditioning
1005034	**Liner Regeneration GW Sil Plus** Cleaning – Inserting Sil Glass Wool – Sil Deactivation – Conditioning
1005037	**Liner Regeneration GW PM-Sil Plus** Cleaning – Inserting Sil Glass Wool – PM-Sil Deactivation – Conditioning
1005035	**Liner Regeneration GW INNO-Sil Plus** Cleaning – Inserting INNO-Sil Glass Wool – INNO-Sil Deactivation – Conditioning

Purchase Order: We assume no liability for liner breakage during shipment !

		Order :	Received:
Liner Regeneration Sil Plus	P/N 1005031	Pcs:_____	Pcs:_____
Liner Regeneration Phenylmethyl-Sil Plus	P/N 1005036	Pcs:_____	Pcs:_____
Liner Regeneration INNO-Sil Plus	P/N 1005032	Pcs:_____	Pcs:_____
Liner Regeneration GW Sil Plus	P/N 1005034	Pcs:_____	Pcs:_____
Liner Regeneration GW Phenylmethyl-Sil Plus	P/N 1005037	Pcs:_____	Pcs:_____
Liner Regeneration GW INNO-Sil Plus	P/N 1005035	Pcs:_____	Pcs:_____
Insertion of:			
Packing Material	P/N 1005021	Pcs:_____	Pcs:_____
Sil Glass Wool for Special Liner Geometry	P/N 1005022	Pcs:_____	Pcs:_____
PM-Sil GW for Special Liner Geometry	P/N 1005022-P	Pcs:_____	Pcs:_____
INNO-Sil GW for Special Liner Geometry	P/N 1005022-A	Pcs:_____	Pcs:_____

Sketch for insertion of glass wool or packing material (if necessary):

Received: (**to be filled out by CS!**) 1) … pcs. liner missing 2) … St. pcs. liner broken 3) … pcs. liner non-regenerable

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