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today's focus the injector liner in GC

Each chain is only as strong as its weakest link which is also true for the individual components in Gas Chromatography. Today we focus on the injector liner.

The liner is the place where liquid samples are vaporised after injection. The volume of the liner should therefore be big enough to house the resulting gas volume. It is therefore important to know the expansion coefficient of the solvent to evaluate the gasvolume.

Liners are made from glass because glass is inert. The liners are deactivated to prevent substances from absorbing on the glass surface. We recommend a deactivation at 400°C which guarantees that the deactivation functions at every operational temperature.

Quartz wool in the liner has advantages. Non-volatile parts are retained by the quartz wool and samples, especially mixtures with varying boiling temperature, are well mixed and the quantitation is improved.
When ideally positioned, the needle injects into the quartz wool and any residue of sample on the needle tip is wiped. This improves reproducibility.

The quartz wool is held in place by two tapered sections to keep it in the ideal position as shown in the picture.

Are you looking for a liner that meets all these recquirements? We recommend the FocusLiner from SGE.

Would you like to use FocusLiners? Send us an e-mail and we will send you a free FocusLiner for testing.

for further information please refer to
http://www.infochroma.ch/gc/liner.html
http://www.sge.com/htm/support/product_selection/prod_sel_liner.asp