



Teknokroma **GC** Consumables

for

Agilent Technologies

Our new line of Gas Chromatography consumables for Agilent equipment.

Teknokroma is committed to the highest quality and the best service, offering this line of consumables with immediate availability, knowing that the laboratory needs cannot be delayed.

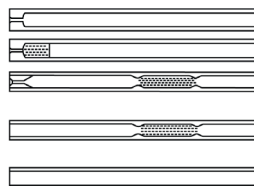
Liners

Teknokroma Liners, achieve constant accuracy, sensitivity and precision in gas chromatography (GC) analysis. Ultra Inert Liners.

- Teknokroma inlet liners have the lowest level of Endrin degradation and DDT degradation, as they are manufactured under the most rigorous quality controls.
- Every batch is tested for activity using the EPA 8081B method. A 5 ppm standard is used to validate that every batch has less than 3% Endrin degradation and less than 1% DDT degradation.

Choosing the right inlet liner and injection parameters can increase peak areas and reduce detection limits by up to 300%.

- Splitless - Taper/Goosneck/ Tapered FocusLiner
- Split - FocusLiner
- Split/Splitless - Straight



- TR-G1-00001** Inlet Liner with Quartz Wool for Agilent GCs 4 mm ID, Length 78.5 mm PK5
- TR-G1-00002** Inlet Liners 4 mm ID FocusLiner for Agilent GCs, Length 78.5 mm PK5
- TR-G1-00003** Inlet Liners 4 mm ID Tapered FocusLiner for Agilent GCs, Length 78.5 mm PK5
- TR-G1-00004** Inlet Liners 2.3 mm ID FocusLiner for Agilent GCs, Length 78.5 mm PK5
- TR-G1-00005** Inlet Liners Tapered with Quartz Wool for Agilent Gcs 4 mm ID, Length 78.5 mm PK5
- TR-G1-00006** Inlet Liners Gooseneck for Agilent GCs2 mm ID, Length 78.5 mm PK5
- TR-G1-00007** Inlet Liners for Agilent GCs 2.3 mm ID Tapered FocusLiner, Length 78.5 mm PK5

Septa

Septum is the most general source of contaminants in the injection port. The baseline noise or the appearance of ghost peaks in the chromatogram can be a consequence of the septum bleed or of the samples of former injections that have been adsorbed on the septum surface.

Teknokroma presents the range of diskobolus™ septa for Agilent Equipment, that have been specially designed and prepared to work at high temperatures, with low bleed, and a better baseline.

Performance Recommendations

- Do not touch the septum with the fingers, in order to avoid a contamination from the filth of the user fingers.
- Change the septum periodically - at least once a week -, this will avoid the leaks through the septum with the consequent losses of time and possibility to damage the column in an irreversible way.
- It is preferable to change the septum at the end of the day, maintaining a high oven temperature to avoid the accumulation of bleed during the night. Alternatively, make a temperature programming for the following day to eliminate contaminant traces of septum volatiles.
- Once the septum has been changed, verify the flow at the end of the column or the pressure at the entry, to make sure that the septum has been correctly sealed.
- Do not tighten the septum with the nut more than it is necessary.
- Use a guide for the needle to prolong the syringe and septum life. The guide helps to inject always at the same place, and avoids random perforations that may cause leaks.
- Use needles with narrow outer diameters to avoid the loss of small pieces of septum; this will increase the septum useful life and will avoid the appearance of tails with active compounds.
- In case of working with a high sensitivity detector, it is necessary to put the septum in the injection port all the night to obtain the least possible bleed.



TR-G2-00001 Diskobolus Septa 11 mm Diameter Premium MN Pre-Drilled Septa PK48

TR-G2-00002 Diskobolus Septa 11 mm Diameter Premium High Temperature HT Septa PK25

Ferrules

Ferrules for gas chromatography are used to seal the connections between the column and the injection and detection systems.

The ideal GC column ferrules provide a perfect seal avoiding leaks that would allow the entrance of air and contaminants into the equipment, damage the baseline and increase the background signal.

Ferrules must not stick to the column and must tolerate temperature changes during programming.

Graphite

Graphite is the best material to work at high temperature and at the same time is the softest ferrule. Therefore it fits the capillary column and seals effectively at only $\frac{1}{4}$ turn past fingertight. As this is a very soft material, they are easily destroyed or deformed. Ideal for FID and NPD detectors.

Do not use with MS or other oxygen sensitive detectors.

Upper temperature limit 450°C.

Vespel/Graphite

Vespel /Graphite ferrules are recommended for applications with GC/MS interface or other oxygen sensitive detectors.

The ferrule composition is 60% polyimide and 40% graphite. It is a ferrule for general use in Gas Chromatography.

It is mechanically robust and forms a perfect seal. It is a reusable ferrule. It needs a frequent retightening.

Limit temperature 400°C

85% Polyimide (vespel) 15% graphite for Agilent ferrules.



TR-G3-00001	Teide Short Ferrule 15% Graphite/85% Vespel with 0.4 mm Hole, for Agilent, PK10
TR-G3-00002	Teide Short Ferrule 15% Graphite/85% Vespel with 0.5 mm Hole, for Agilent, PK10
TR-G3-00003	Teide Short Ferrule 15% Graphite/85% Vespel with 0.8 mm Hole, for Agilent, PK10
TR-G3-00004	Teide Ferrule 15% Graphite/85% Vespel with 0.4mm Hole, PK10
TR-G3-00005	Teide Ferrule 15% Graphite/85% Vespel with 0.5mm Hole, PK10
TR-G3-00006	Teide Ferrule 15% Graphite/85% Vespel with 0.8mm Hole, PK10
TR-G3-00007	Teide Short Graphite Ferrule with 0.5 mm Hole , PK10
TR-G3-00008	Teide Short Graphite Ferrule with 0.8 mm Hole , PK10

Quick view of P/N Teknokroma GC for Agilent Line

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The *Fresh Breeze* of Chromatography



www.teknokroma.es