

“The most exciting development in GC, GC-MS ferrules in 20 years”

SiTite™ metal ferrules

patent applied for

WHAT are SiTite Ferrules?

SiTite ferrules are a unique metal ferrule for fused silica GC columns and tubing. Once fitted, SiTite ferrules provide a continuous leak-free connection and are perfect for connecting your column to a GC-MS interface. Their performance and cost-effectiveness also makes them ideal for connecting GC columns to injectors and detectors.

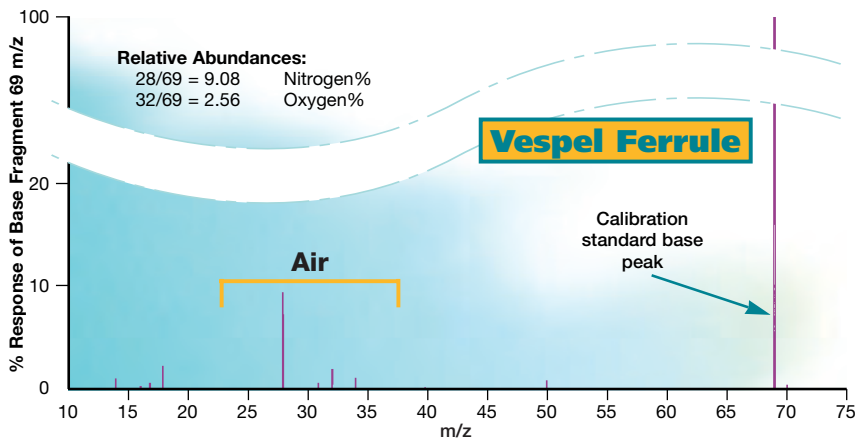


Figure 1. MS trace using a Vespel ferrule after 5 temperature cycles.

WHY use SiTite Ferrules?

- Eliminates leaks
- Removes contamination caused by Vespel® or graphite ferrules
- No need to re-tighten Vespel ferrules after temperature cycling.
- Reduce air background (as can be seen from Figure 2)
- Cleaner Spectra for better library matches

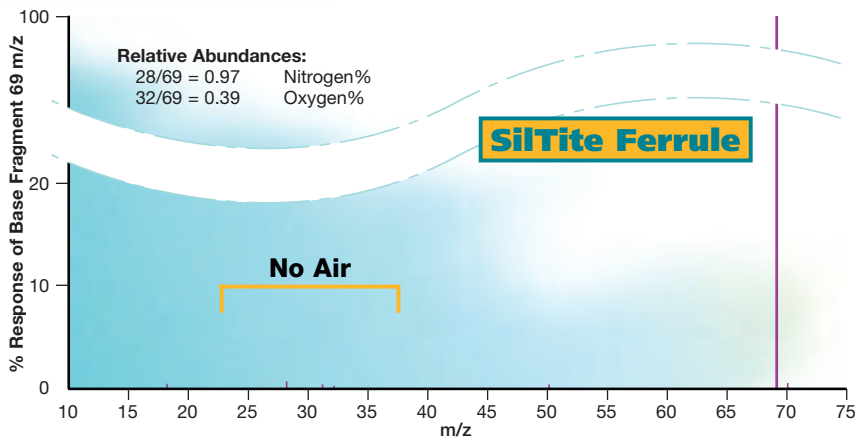


Figure 2. MS trace using a SiTite ferrule after 5 temperature cycles. (Using a MS no leaks can be detected, even after 400 temperature cycles between 70°C and 400°C)

HOW does SilTite™ work?

After considerable research SGE has developed a metal ferrule that can be used with fused silica GC columns.

SilTite ferrules are used in conjunction with a special nut that is supplied with the ferrule.

The geometry of the nut and ferrule combination makes it possible to swage the end of the ferrule to the fused silica tubing. This creates a leak-free seal that never needs re-tightening – even after 400 temperature cycles between 70°C and 400°C. Since it is a metal

ferrule the risk of contaminating your MS source is completely eliminated.

Furthermore, for your convenience, the special nut is differentiated by notches across points of the hexagonal faces.

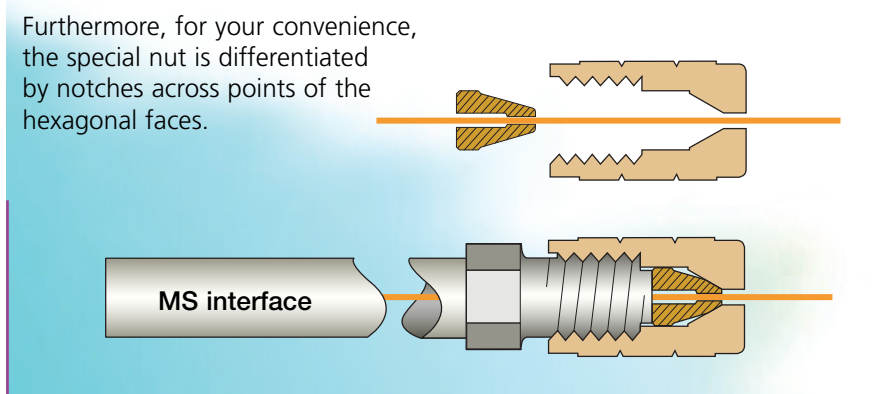


Figure 3. SilTite cutaway.

ORDERING INFORMATION

Mass Spec Interface	Part No.	Injectors and Non-MS Detectors	Part No.
Agilent Technologies (HP) – MSD Interface Contents: 10 SilTite™ metal ferrules and 2 nuts for: 0.10mm-0.25mm ID Capillary Columns 0.32mm ID Capillary Columns 0.45-0.53mm ID Capillary Columns	073200 073201 073202	Agilent Technologies (HP) – Split/Splitless Injector Kit Contents: 10 SilTite™ metal ferrules, 2 nuts and 2 special Inlet Base Seals for: 0.10mm-0.25mm ID Capillary Columns 0.32mm ID Capillary Columns 0.45-0.53mm ID Capillary Columns	073270 073271 073272
Shimadzu – Direct MS Interface Contents: 10 SilTite™ metal ferrules and 2 nuts for: 0.10mm-0.25mm ID Capillary Columns 0.32mm ID Capillary Columns 0.45-0.53mm ID Capillary Columns	073360 073361 073362	Agilent Technologies (HP) – Split/Splitless Injector Contents: 10 SilTite™ metal ferrules and 2 nuts for: 0.10mm-0.25mm ID Capillary Columns 0.32mm ID Capillary Columns 0.45-0.53mm ID Capillary Columns	073250 073251 073252
Shimadzu – Jet Separator MS Interface Contents: 10 SilTite™ metal ferrules and 2 nuts for: 0.10mm-0.25mm ID Capillary Columns 0.32mm ID Capillary Columns 0.45-0.53mm ID Capillary Columns	073200 073201 073202	Agilent Technologies (HP) – Base Seals Contents: special Inlet Base Seals Pack of 2 Pack of 10	073400 073401
Varian – MS Interface Contents: 10 SilTite™ metal ferrules and 2 nuts for: 0.10mm-0.25mm ID Capillary Columns 0.32mm ID Capillary Columns 0.45-0.53mm ID Capillary Columns	073300 073301 073302	Shimadzu – All Injectors and Non-MS Detectors Contents: 10 SilTite™ metal ferrules and 2 nuts: 0.10mm-0.25mm ID Capillary Columns 0.32mm ID Capillary Columns 0.45-0.53mm ID Capillary Columns	073350 073351 073352
Ferrules for other instruments are under development.		Varian – All Injectors and Detectors Contents: 10 SilTite™ metal ferrules and 2 nuts: 0.10mm-0.25mm ID Capillary Columns 0.32mm ID Capillary Columns 0.45-0.53mm ID Capillary Columns	073300 073301 073302

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