

# SilTite™

## WHAT ARE SilTite FERRULES?

SilTite ferrules are a unique metal ferrule for fused silica GC columns and tubing. Once fitted, SilTite 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.

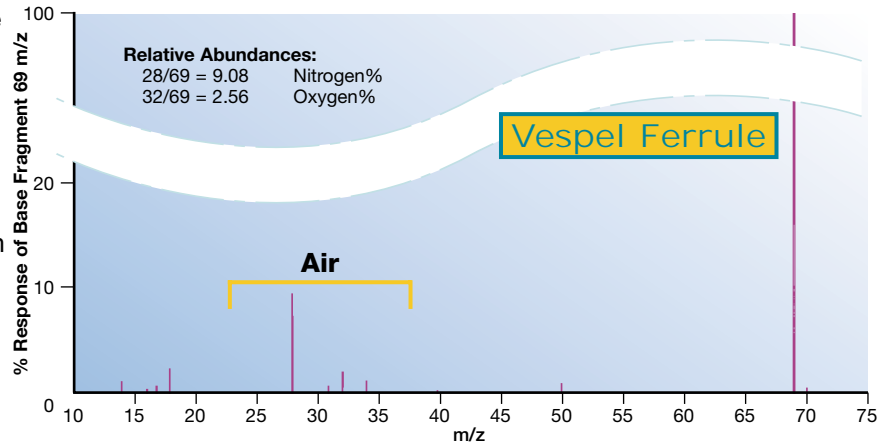


Figure 1. MS trace using a Vespel ferrule after 5 temperature cycles.

PRODUCT DATA

## WHY USE SilTite 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

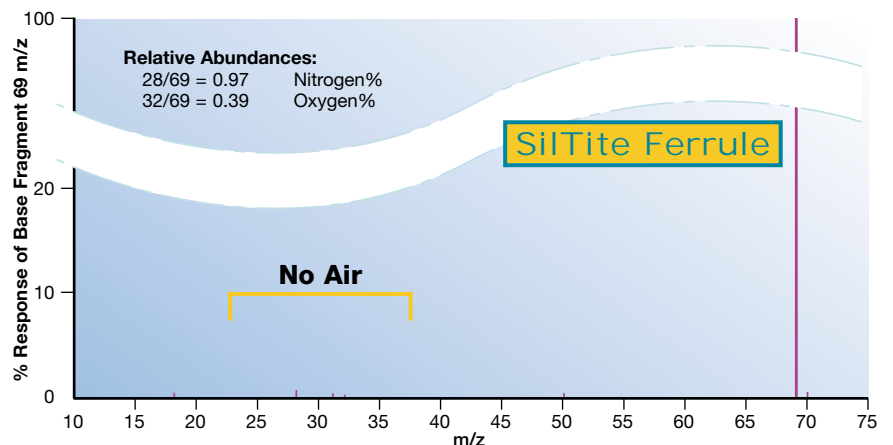


Figure 2. MS trace using a SilTite ferrule after 5 temperature cycles. (Using a MS no leaks can be detected, even after 400 temperature cycles between 70°C and 400°C)

# HOW DOES SiITite™ WORK?

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

SiITite 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.

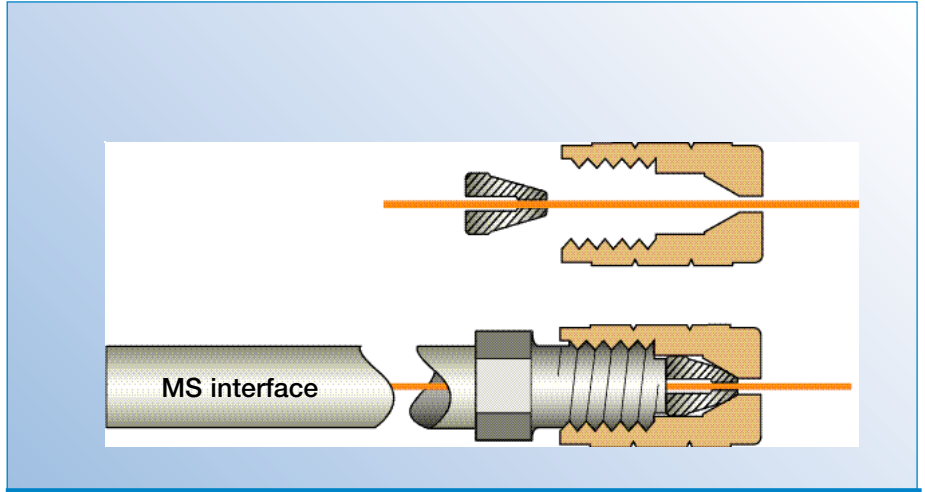


Figure 3. SiITite cutaway.

## ORDERING INFORMATION

### Mass Spec Interface

#### Agilent Technologies (HP) – MSD Interface

Contents: 10 SiITite™ 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

Part No.

**073200**  
**073201**  
**073202**

#### Shimadzu – Direct MS Interface

Contents: 10 SiITite™ 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**

#### Shimadzu – Jet Separator MS Interface

Contents: 10 SiITite™ 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**

#### Varian – MS Interface

Contents: 10 SiITite™ 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**

**Ferrules for other instruments are under development.**

### Injectors and Non-MS Detectors

#### Agilent Technologies (HP) – Split/Splitless Injector Kit

Contents: 10 SiITite™ 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

Part No.

**073270**  
**073271**  
**073272**

#### Agilent Technologies (HP) – Split/Splitless Injector

Contents: 10 SiITite™ 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**

#### Agilent Technologies (HP) – Base Seals

Contents: special Inlet Base Seals  
 Pack of 2  
 Pack of 10

**073400**  
**073401**

#### Shimadzu – All Injectors and Non-MS Detectors

Contents: 10 SiITite™ 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**

#### Varian – All Injectors and Detectors

Contents: 10 SiITite™ 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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Publication No. PD-0206-C Rev:01 01/01

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