



**2014 Chromatography
Supplies & Instruments
Catalog - GC Ferrules**

About Visacon

About Visacon™

Visacon is the brand of Reflect Scientific's chromatography supplies and instruments. For the very first time Visacon offers you, the front line distributor, our wide range of GC (Gas Chromatography) and HPLC (High Performance Liquid Chromatography) consumable products.

In the past we have only offered these products and services to a handful of the largest chromatography instrument companies. This has been done with great success for over 20 years. You have probably purchased our products from one of these well-known companies without knowing it was our product.

We also offer a full range of customizable chromatography consumables to meet your most exacting specifications. We guarantee that you will be satisfied with your purchase.



GC Ferrules

Vespel®/Graphite

Graphite

Vespel®

Teflon®

- ◆ Agilent (HP)
- ◆ Varian
- ◆ Bruker
- ◆ Perkin Elmer
- ◆ Antek
- ◆ Carlo Erba
- ◆ Finnigan (TMQ)
- ◆ Gow Mac
- ◆ HNU
- ◆ Shimadzu
- ◆ SRI
- ◆ Thermo Scientific
- ◆ Tracor
- ◆ All GC's
- ◆ Specialty Application Ferrules
- ◆ Custom Sizes Available

Vespel®/Graphite Ferrules

60% Polyimide (Vespel®) /40% Graphite Ferrules

- Stable to 400°C
- Minimal Torque Required to Seal
- Reusable, One-piece Design, Precision Drilled
- Excellent for Vacuum & High Pressure Applications
- Recommended for Mass Spec Transfer Line
- Offers the Best Combination of Sealing and Easy Workability
- Packaged in "Ultra Clean" Glass Bottles
- Ferrules for Capillary and Standard Columns



| Description | Qty | Part# | Price \$ |
|---|----------------|---------------------------|----------|
| 60% Polyimide (Vespel®)/40% Graphite Ferrule 1/16in. Fitting to 1/16 in. OD Tube | 10/pk 50/pk | 392611741 392611741-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/16 in. Fitting to No Hole (Blanks) | 10/pk 50/pk | 392611742 392611742-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/8 in. Fitting to 1/16 in. OD Tube | 10/pk 50/pk | 392611743 392611743-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/8 in. Fitting to 1/8 in. OD Tube | 10/pk 50/pk | 392611744 392611744-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/8 in. Fitting to No Hole (Blanks) | 10/pk 50/pk | 392611745 392611745-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/4 in. Fitting to 1/16 in. OD Tube | 10/pk 50/pk | 392611746 392611746-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/4 in. Fitting to 1/8 in. OD Tube | 10/pk 50/pk | 392611747 392611747-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/4 in. Fitting to 1/4 in. OD Tube | 10/pk 50/pk | 392611748 392611748-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/4 in. Fitting to 6 mm OD Tube | 10/pk 50/pk | 392611749 392611749-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/4 in. Fitting to No Hole (Blanks) | 10/pk 50/pk | 392611750 392611750-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/16 in. Fitting to 0.3 mm OD Column | 10/pk 50/pk | 392611958 392611958-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/16 in. Fitting to 0.4 mm OD Column | 10/pk 50/pk | 392611959 392611959-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/16 in. Fitting to 0.5 mm OD Column | 10/pk 50/pk | 392611960 392611960-50 | OEM |
| 60% Polyimide (Vespel®)/40% Graphite Ferrule, 400°C, 1/16 in. Fitting to 0.8 mm OD Column | 10/pk 50/pk | 392611961 392611961-50 | OEM |

Vespel®/Graphite Ferrules

Agilent (HP) Short 60% Polyimide (Vespel®)/40% Graphite Ferrules

- Recommended for use with Agilent (HP) 4890, 5890, 6890 Inlet Systems
- Stable to 400°C
- Packaged in "Ultra Clean" Glass Bottles



| Description | Qty | Part# | Price \$ |
|---|----------------|---------------------------|----------|
| Agilent (HP) Short 60% Polyimide (Vespel®)/40% Graphite Ferrule, 1/16 in. to 0.4 mm OD Column | 10/pk 50/pk | 392611787 392611787-50 | OEM |
| Agilent (HP) Short 60% Polyimide (Vespel®)/40% Graphite Ferrule, 1/16 in. to 0.5 mm OD Column | 10/pk 50/pk | 392611788 392611788-50 | OEM |
| Agilent (HP) Short 60% Polyimide (Vespel®)/40% Graphite Ferrule, 1/16 in. to 0.8 mm OD Column | 10/pk 50/pk | 392611789 392611789-50 | OEM |

Preconditioned 60% Polyimide (Vespel®)/40% Graphite Ferrules, 400°C

- Stable to 400°C
- Offers the Best Combination of Sealing and Easy Workability
- Packaged in "Ultra Clean" Glass Bottles



| Description | Qty | Part# | Price \$ |
|---|----------------|---------------------------|----------|
| Preconditioned 60% Polyimide (Vespel®)/40% Graphite Ferrule, 1/16 in. Fitting to 0.3 mm OD Column | 10/pk 50/pk | 392611962 392611962-50 | OEM |
| Preconditioned 60% Polyimide (Vespel®)/40% Graphite Ferrule, 1/16 in. Fitting to 0.4 mm OD Column | 10/pk 50/pk | 392611963 392611963-50 | OEM |
| Preconditioned 60% Polyimide (Vespel®)/40% Graphite Ferrule, 1/16 in. Fitting to 0.5 mm OD Column | 10/pk 50/pk | 392611964 392611964-50 | OEM |
| Preconditioned 60% Polyimide (Vespel®)/40% Graphite Ferrule, 1/16 in. Fitting to 0.8 mm OD Column | 10/pk 50/pk | 392611965 392611965-50 | OEM |

Two hole 60% Polyimide (Vespel®)/ 40% Graphite Ferrules, 400°C

- Stable to 400°C
- Reusable, One-piece Design, Precision Drilled
- Packaged in "Ultra Clean" Glass Bottles



| Description | Qty | Part# | Price \$ |
|---|----------------|---------------------------|----------|
| Two Hole 60% Polyimide (Vespel®)/40% Graphite Ferrule, 1/16 in. Fitting to 0.5-0.5 mm OD Column | 10/pk 50/pk | 392611785 392611785-50 | OEM |
| Two Hole 60% Polyimide (Vespel®)/40% Graphite Ferrule, 1/16 in. Fitting to 0.8-0.8 mm OD Column | 10/pk 50/pk | 392611786 392611786-50 | OEM |
| Two Hole 60% Polyimide (Vespel®)/40% Graphite Ferrule, 1/16 in. Fitting to 0.3-0.3 mm OD Column | 10/pk 50/pk | 392611966 392611966-50 | OEM |
| Two Hole 60% Polyimide (Vespel®)/40% Graphite Ferrule, 1/16 in. Fitting to 0.4-0.4 mm OD Column | 10/pk 50/pk | 392611967 392611967-50 | OEM |

Vespel®/Graphite Ferrules

Capillary Ferrules for 1/16" Compression-Type Ferrules

- 60% Polyimide (Vespel®)/ 40% Graphite
- For Agilent Injectors & Detectors; 5890/6890/7890 GCs
- Stable to 400°C
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-------------------------|----------------|-------|----------|----------|
| 1/16" x No Hole "Short" | No Hole | 10/pk | 32100 | OEM |
| | | 50/pk | 32100-50 | |
| 1/16" X 0.3 mm | 0.1 mm | 10/pk | 32101 | OEM |
| | | 50/pk | 32101-50 | |
| 1/16" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32102 | OEM |
| | | 50/pk | 32102-50 | |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk | 32103 | OEM |
| | | 50/pk | 32103-50 | |
| 1/16" X 0.8 mm | 0.53 mm | 10/pk | 32104 | OEM |
| | | 50/pk | 32104-50 | |

Standard Capillary 1/16" Ferrules

- 60% Polyimide (Vespel®)/ 40% Graphite
- Ferrules for capillary columns
- Stable to 400°C
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-----------------|-----------------|-------|----------|----------|
| 1/16" x No Hole | No Hole | 10/pk | 32108 | OEM |
| | | 50/pk | 32108-50 | |
| 1/16" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32109 | OEM |
| | | 50/pk | 32109-50 | |
| 1/16" X 0.3 mm | 0.1 mm | 10/pk | 32110 | OEM |
| | | 50/pk | 32110-50 | |
| 1/16" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32111 | OEM |
| | | 50/pk | 32111-50 | |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk | 32112 | OEM |
| | | 50/pk | 32112-50 | |
| 1/16" X 0.8 mm | 0.45 - 0.53 mm | 10/pk | 32113 | OEM |
| | | 50/pk | 32113-50 | |
| 1/16" X 1.0 mm | 0.65 mm | 10/pk | 32114 | OEM |
| | | 50/pk | 32114-50 | |
| 1/16" X 1.2 mm | 0.75 mm | 10/pk | 32115 | OEM |
| | | 50/pk | 32115-50 | |

Vespel®/Graphite Ferrules

Two Hole 1/16" Ferrules

- 60% Polyimide (Vespel®)/ 40% Graphite
- For 1/16" Compression-Type Fittings
- Use 1/16" Two Hole Ferrules with 1/16" Capillary Adapter Fittings
- Stable to 400°C
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-------------------------|----------------|-------|----------|----------|
| 1/16" X 0.4 mm (2-hole) | 0.2 - 0.25 mm | 10/pk | 32118 | OEM |
| | | 50/pk | 32118-50 | |
| 1/16" X 0.5 mm (2-hole) | 0.32 mm | 10/pk | 32119 | OEM |
| | | 50/pk | 32119-50 | |
| 1/16" X 0.8 mm (2-hole) | 0.53 mm | 10/pk | 32120 | OEM |
| | | 50/pk | 32120-50 | |

Standard, Capillary & Reducing 1/8" Ferrules

- 60% Polyimide (Vespel®)/ 40% Graphite
- Ferrules for Capillary and Standard Columns
- Packaged in "Ultra Clean" Glass Bottles
- Stable to 400°C



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|----------------|------------------|-------|----------|----------|
| 1/8" x No Hole | No Hole | 10/pk | 32123 | OEM |
| | | 50/pk | 32123-50 | |
| 1/8" X 1/8" | 1/8" TUBE O.D. | 10/pk | 32124 | OEM |
| | | 50/pk | 32124-50 | |
| 1/8" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32125 | OEM |
| | | 50/pk | 32125-50 | |
| 1/8" X 0.4 mm | 0.2 -0.25 mm | 10/pk | 32126 | OEM |
| | | 50/pk | 32126-50 | |
| 1/8" X 0.5 mm | 0.32 mm | 10/pk | 32127 | OEM |
| | | 50/pk | 32127-50 | |
| 1/8" X 0.8 mm | 0.45 - 0.53 mm | 10/pk | 32128 | OEM |
| | | 50/pk | 32128-50 | |
| 1/8" X 1.0 mm | 0.65 mm | 10/pk | 32129 | OEM |
| | | 50/pk | 32129-50 | |
| 1/8" X 1.2 mm | 0.75 mm | 10/pk | 32130 | OEM |
| | | 50/pk | 32130-50 | |
| 1/8" X 2.4 mm | 2.4 mm O.D. TUBE | 10/pk | 32131 | OEM |
| | | 50/pk | 32131-50 | |

Vespel®/Graphite Ferrules

Two Hole 1/8" Ferrules

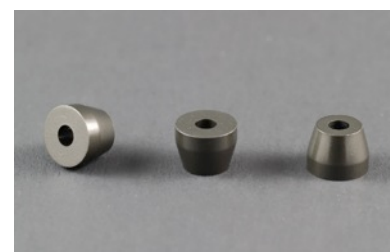
- 60% Polyimide (Vespel®)/ 40% Graphite
- For 1/8" Compression-Type Fittings
- Use 1/8" Two Hole Ferrules with 1/8" Capillary Adapter Fittings
- Stable to 400°C
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|------------------------|----------------|-------|----------|----------|
| 1/8" X 0.5 mm (2-hole) | 0.32 mm | 10/pk | 32134 | OEM |
| | | 50/pk | 32134-50 | |
| 1/8" X 0.8 mm (2-hole) | 0.53 mm | 10/pk | 32135 | OEM |
| | | 50/pk | 32135-50 | |

Standard, Capillary & Reducing 1/4" Ferrules

- 60% Polyimide (Vespel®)/ 40% Graphite
- Ferrules for Capillary and Standard Columns
- Packaged in "Ultra Clean" Glass Bottles
- Stable to 400°C



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|----------------|------------------|-------|----------|----------|
| 1/4" x No Hole | No Hole | 10/pk | 32138 | OEM |
| | | 50/pk | 32138-50 | |
| 1/4" X 1/4" | 1/4" TUBE O.D. | 10/pk | 32139 | OEM |
| | | 50/pk | 32139-50 | |
| 1/4" X 1/8" | 1/8" TUBE O.D. | 10/pk | 32141 | OEM |
| | | 50/pk | 32141-50 | |
| 1/4" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32142 | OEM |
| | | 50/pk | 32142-50 | |
| 1/4" X 3/16" | 3/16" TUBE O.D. | 10/pk | 32143 | OEM |
| | | 50/pk | 32143-50 | |
| 1/4" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32144 | OEM |
| | | 50/pk | 32144-50 | |
| 1/4" X 0.5 mm | 0.32 mm | 10/pk | 32145 | OEM |
| | | 50/pk | 32145-50 | |
| 1/4" X 0.8 mm | 0.53 mm | 10/pk | 32146 | OEM |
| | | 50/pk | 32146-50 | |
| 1/4" X 1.0 mm | 0.65 mm | 10/pk | 32147 | OEM |
| | | 50/pk | 32147-50 | |
| 1/4" X 1.2 mm | 0.75 mm | 10/pk | 32148 | OEM |
| | | 50/pk | 32148-50 | |
| 1/4" X 4.0 mm | 4.0 mm TUBE O.D. | 10/pk | 32149 | OEM |
| | | 50/pk | 32149-50 | |
| 1/4" X 6.0 mm | 6.0 mm TUBE O.D. | 10/pk | 32150 | OEM |
| | | 50/pk | 32150-50 | |

Custom products & bulk pricing available. Email or fax us with your specifications for more information.

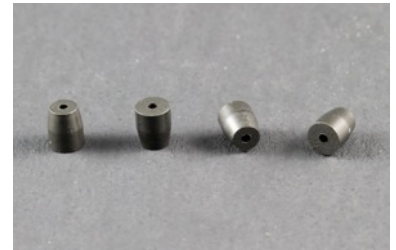
Vespel®/Graphite Ferrules

85% Polyimide (Vespel®) /15% Graphite Ferrules

- Stable to 400°C
- Minimal Torque Required to Seal
- Reusable, One-piece Design, Precision Drilled
- Packaged in "Ultra Clean" Glass Bottles

85%Polyimide (Vespel®)/ 15% Graphite Ferrules, 400°C

- Stable to 400°C
- Packaged in "Ultra Clean" Glass Bottles
- Excellent for Vacuum & High Pressure Applications



| Description | Qty | Part# | Price \$ |
|---|----------------|---------------------------|----------|
| 85% Polyimide (Vespel®)/15% Graphite Ferrule, 400°C, 1/16 in. Fitting to 0.3 mm OD Column | 10/pk 50/pk | 392611790 392611790-50 | OEM |
| 85% Polyimide (Vespel®)/15% Graphite Ferrule, 400°C, 1/16 in. Fitting to 0.4 mm OD Column | 10/pk 50/pk | 392611791 392611791-50 | OEM |
| 85% Polyimide (Vespel®)/15% Graphite Ferrule, 400°C, 1/16 in. Fitting to 0.5 mm OD Column | 10/pk 50/pk | 392611792 392611792-50 | OEM |
| 85% Polyimide (Vespel®)/15% Graphite Ferrule, 400°C, 1/16 in. Fitting to 0.8 mm OD Column | 10/pk 50/pk | 392611793 392611793-50 | OEM |

Agilent (HP) Short 85% Polyimide (Vespel®)/15% Graphite Ferrules

- Recommended for use with Agilent (HP) 4890, 5890, 6890 Inlet Systems
- Ferrules for capillary columns
- Stable to 400°C
- Packaged in "Ultra Clean" Glass Bottles



| Description | Qty | Part# | Price \$ |
|---|----------------|---------------------------|----------|
| Agilent (HP) Short 85% Polyimide (Vespel®)/15% Graphite Ferrule, 1/16 in. to 0.4 mm OD Column | 10/pk 50/pk | 392611903 392611903-50 | OEM |
| Agilent (HP) Short 85% Polyimide (Vespel®)/15% Graphite Ferrule, 1/16 in. to 0.5 mm OD Column | 10/pk 50/pk | 392611904 392611904-50 | OEM |
| Agilent (HP) Short 85% Polyimide (Vespel®)/15% Graphite Ferrule, 1/16 in. to 0.8 mm OD Column | 10/pk 50/pk | 392611905 392611905-50 | OEM |

Vespel®/Graphite Ferrules

Preconditioned 85% Polyimide (Vespel®)/15% Graphite Ferrules

- Preconditioned @ 250°C for 5 Hours
- Recommended for Use with GC/MS
- Stable to 400°C
- Packaged in "Ultra Clean" Glass Bottles



| Description | Qty | Part# | Price \$ |
|--|----------------|---------------------------|----------|
| Preconditioned, 85% Polyimide (Vespel®)/15% Graphite Ferrule, 1/16 in. to 0.3 mm OD Column | 10/pk 50/pk | 392611794 392611794-50 | OEM |
| Preconditioned, 85% Polyimide (Vespel®)/15% Graphite Ferrule, 1/16 in. to 0.4 mm OD Column | 10/pk 50/pk | 392611795 392611795-50 | OEM |
| Preconditioned, 85% Polyimide (Vespel®)/15% Graphite Ferrule, 1/16 in. to 0.5 mm OD Column | 10/pk 50/pk | 392611796 392611796-50 | OEM |
| Preconditioned, 85% Polyimide (Vespel®)/15% Graphite Ferrule, 1/16 in. to 0.8 mm OD Column | 10/pk 50/pk | 392611797 392611797-50 | OEM |

Two hole 85% Polyimide (Vespel®)/15% Graphite Ferrules, 400°C

- Ferrules for capillary columns
- Stable to 400°C
- Offers the Best Combination of Sealing and Easy Workability
- Packaged in "Ultra Clean" Glass Bottles



| Description | Qty | Part# | Price \$ |
|---|----------------|---------------------------|----------|
| Two Hole 85% Polyimide (Vespel®)/15% Graphite Ferrule, 1/16in. to 0.3-0.3 mm OD Column | 10/pk 50/pk | 392611798 392611798-50 | OEM |
| Two Hole 85% Polyimide (Vespel®)/15% Graphite Ferrule, 1/16in. to 0.4-0.4 mm OD Column | 10/pk 50/pk | 392611799 392611799-50 | OEM |
| Two Hole 85% Polyimide (Vespel®)/15% Graphite Ferrule, 1/16in. to 0.5-0.5 mm OD Column | 10/pk 50/pk | 392611901 392611901-50 | OEM |
| Two Hole, 85% Polyimide (Vespel®)/15% Graphite Ferrule, 1/16in. to 0.8-0.8 mm OD Column | 10/pk 50/pk | 392611902 392611902-50 | OEM |

Vespel®/Graphite Ferrules

Capillary Ferrules for 1/16" Compression-Type Ferrules

- 85% Polyimide (Vespel®)/ 15% Graphite
- For Agilent Injectors & Detectors; 5890/6890/7890 GCs
- Stable to 400°C
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-------------------------|----------------|-------|----------|----------|
| 1/16" x No Hole "Short" | No Hole | 10/pk | 32047 | OEM |
| | | 50/pk | 32047-50 | |
| 1/16" X 0.3 mm | 0.1 mm | 10/pk | 32048 | OEM |
| | | 50/pk | 32048-50 | |
| 1/16" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32049 | OEM |
| | | 50/pk | 32049-50 | |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk | 32050 | OEM |
| | | 50/pk | 32050-50 | |
| 1/16" X 0.8 mm | 0.53 mm | 10/pk | 32051 | OEM |
| | | 50/pk | 32051-50 | |

Standard Capillary Ferrules

- 85% Polyimide (Vespel®)/ 15% Graphite
- Stable to 400°C
- Ferrules for Capillary and Standard Columns
- Packaged in "Ultra Clean" Glass Bottles

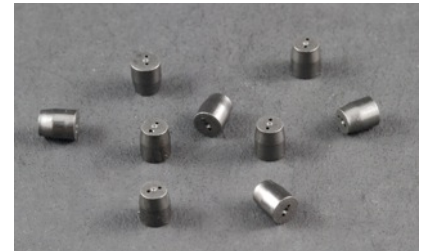


| Description | Fits Column ID | Qty. | Part# | Price \$ |
|--------------------------|-----------------|-------|----------|----------|
| 1/16" Standard x No Hole | No Hole | 10/pk | 32055 | OEM |
| | | 50/pk | 32055-50 | |
| 1/16" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32056 | OEM |
| | | 50/pk | 32056-50 | |
| 1/16" X 0.3 mm | 0.1 mm | 10/pk | 32057 | OEM |
| | | 50/pk | 32057-50 | |
| 1/16" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32058 | OEM |
| | | 50/pk | 32058-50 | |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk | 32059 | OEM |
| | | 50/pk | 32059-50 | |
| 1/16" X 0.8 mm | 0.45 - 0.53 mm | 10/pk | 32060 | OEM |
| | | 50/pk | 32060-50 | |
| 1/16" X 1.0 mm | 0.65 mm | 10/pk | 32061 | OEM |
| | | 50/pk | 32061-50 | |
| 1/16" X 1.2 mm | 0.75 mm | 10/pk | 32062 | OEM |
| | | 50/pk | 32062-50 | |

Vespel®/Graphite Ferrules

Two Hole Capillary Ferrules

- 85% Polyimide (Vespel®)/ 15% Graphite
- Stable to 400°C
- Ferrules for Capillary and Standard Columns
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-------------------------|----------------|-------|----------|----------|
| 1/16" X 0.4 mm (2-hole) | 0.2 - 0.25 mm | 10/pk | 32065 | OEM |
| | | 50/pk | 32065-50 | |
| 1/16" X 0.5 mm (2-hole) | 0.32 mm | 10/pk | 32066 | OEM |
| | | 50/pk | 32066-50 | |
| 1/16" X 0.8 mm (2-hole) | 0.53 mm | 10/pk | 32067 | OEM |
| | | 50/pk | 32067-50 | |

Standard, Capillary & Reducing 1/8" Ferrules

- 85% Polyimide (Vespel®)/ 15% Graphite
- Reusable, One-piece Design, Precision Drilled
- Packaged in "Ultra Clean" Glass Bottles
- Stable to 400°C



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|----------------|------------------|-------|----------|----------|
| 1/8" x No Hole | No Hole | 10/pk | 32073 | OEM |
| | | 50/pk | 32073-50 | |
| 1/8" X 1/8" | 1/8" TUBE O.D. | 10/pk | 32074 | OEM |
| | | 50/pk | 32074-50 | |
| 1/8" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32075 | OEM |
| | | 50/pk | 32075-50 | |
| 1/8" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32076 | OEM |
| | | 50/pk | 32076-50 | |
| 1/8" X 0.5 mm | 0.32 mm | 10/pk | 32077 | OEM |
| | | 50/pk | 32077-50 | |
| 1/8" X 0.8 mm | 0.45 - 0.53 mm | 10/pk | 32078 | OEM |
| | | 50/pk | 32078-50 | |
| 1/8" X 1.0 mm | 0.65 mm | 10/pk | 32079 | OEM |
| | | 50/pk | 32079-50 | |
| 1/8" X 1.2 mm | 0.75 mm | 10/pk | 32080 | OEM |
| | | 50/pk | 32080-50 | |
| 1/8" X 2.4 mm | 2.4 mm TUBE O.D. | 10/pk | 32081 | OEM |
| | | 50/pk | 32081-50 | |

Vespel®/Graphite Ferrules

Two Hole 1/8" Ferrules

- 85% Polyimide (Vespel®)/ 15% Graphite
- Ferrules for capillary columns
- Stable to 400°C
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|------------------------|----------------|-------|----------|----------|
| 1/8" X 0.5 mm (2-hole) | 0.32 mm | 10/pk | 32084 | OEM |
| | | 50/pk | 32084-50 | |
| 1/8" X 0.8 mm (2-hole) | 0.53 mm | 10/pk | 32085 | OEM |
| | | 50/pk | 32085-50 | |

Standard, Capillary & Reducing 1/4" Ferrules

- 85% Polyimide (Vespel®)/ 15% Graphite
- Excellent for Vacuum & High Pressure Applications
- Stable to 400°C
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|----------------|------------------|-------|----------|----------|
| 1/4" x No Hole | No Hole | 10/pk | 32088 | OEM |
| | | 50/pk | 32088-50 | |
| 1/4" X 1/4" | 1/4" TUBE O.D. | 10/pk | 32089 | OEM |
| | | 50/pk | 32089-50 | |
| 1/4" X 1/8" | 1/8" TUBE O.D. | 10/pk | 32090 | OEM |
| | | 50/pk | 32090-50 | |
| 1/4" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32091 | OEM |
| | | 50/pk | 32091-50 | |
| 1/4" X 3/16" | 3/16" TUBE O.D. | 10/pk | 32092 | OEM |
| | | 50/pk | 32092-50 | |
| 1/4" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32093 | OEM |
| | | 50/pk | 32093-50 | |
| 1/4" X 0.5 mm | 0.32 mm | 10/pk | 32094 | OEM |
| | | 50/pk | 32094-50 | |
| 1/4" X 0.8 mm | 0.53 mm | 10/pk | 32095 | OEM |
| | | 50/pk | 32095-50 | |
| 1/4" X 1.0 mm | 0.65 mm | 10/pk | 32096 | OEM |
| | | 50/pk | 32096-50 | |
| 1/4" X 1.2 mm | 0.75 mm | 10/pk | 32097 | OEM |
| | | 50/pk | 32097-50 | |
| 1/4" X 4.0 mm | 4.0 mm TUBE O.D. | 10/pk | 32098 | OEM |
| | | 50/pk | 32098-50 | |
| 1/4" X 6.0 mm | 6.0 mm TUBE O.D. | 10/pk | 32099 | OEM |
| | | 50/pk | 32099-50 | |

Custom products & bulk pricing available. Email or fax us with your specifications for more information.

Graphite Ferrules

Graphite Ferrules

- Stable to 450°C
- High Purity Graphite, Preferred for Capillary GC Use
- High Density Graphite
- Preconditioned to Eliminate Out-Gassing
- Contains No Binders that can Out-Gas or Absorb Analytes
- Smooth & Clean Edges - Better than Conventional Graphite Ferrules
- Does not stick to Glass or Fused Silica
- Packaged in "Ultra Clean" Glass Bottles



Graphite Ferrules, 450°C

| Description | Qty | Part# | Price \$ |
|--|-------|--------------|----------|
| Graphite Ferrules, 450°C, 1/16 in. Fitting to 1/16 in. OD Tube | 10/pk | 392611751 | OEM |
| | 50/pk | 392611751-50 | |
| Graphite Ferrules, 450°C, 1/16 in. Fitting to 1.0 mm OD Tube | 10/pk | 392611752 | OEM |
| | 50/pk | 392611752-50 | |
| Graphite Ferrules, 450°C, 1/8 in. Fitting Reducing to 1/16 in. OD Tube | 10/pk | 392611753 | OEM |
| | 50/pk | 392611753-50 | |
| Graphite Ferrules, 450°C, 1/8 in. Fitting to 1/8 in. OD Tube | 10/pk | 392611754 | OEM |
| | 50/pk | 392611754-50 | |
| Graphite Ferrules, 450°C, 1/4 in. Fitting Reducing to 1/16 in. OD Tube | 10/pk | 392611756 | OEM |
| | 50/pk | 392611756-50 | |
| Graphite Ferrules, 450°C, 1/4 in. Fitting Reducing to 1/8 in. OD Tube | 10/pk | 392611757 | OEM |
| | 50/pk | 392611757-50 | |
| Graphite Ferrules, 450°C, 1/4 in. Fitting to 1/4 in. OD Tube | 10/pk | 392611758 | OEM |
| | 50/pk | 392611758-50 | |
| Graphite Ferrules, 450°C, 1/4 in. Fitting Reducing to 6 mm OD Tube | 10/pk | 392611759 | OEM |
| | 50/pk | 392611759-50 | |
| Graphite Ferrules, 450°C, 1/16 in. Fitting to 0.3 mm OD Column | 10/pk | 392611906 | OEM |
| | 50/pk | 392611906-50 | |
| Graphite Ferrules, 450°C, 1/16 in. Fitting to 0.4 mm OD Column | 10/pk | 392611907 | OEM |
| | 50/pk | 392611907-50 | |
| Graphite Ferrules, 450°C, 1/16 in. Fitting to 0.5 mm OD Column | 10/pk | 392611908 | OEM |
| | 50/pk | 392611908-50 | |
| Graphite Ferrules, 450°C, 1/16 in. Fitting to 0.8 mm OD Column | 10/pk | 392611909 | OEM |
| | 50/pk | 392611909-50 | |

Agilent (HP), Short Graphite Ferrules, 450°C

- Recommended for Use with Agilent (HP) 4890, 5890, 6890 Inlet Systems
- Stable to 450°C
- Does not stick to Glass or Fused Silica



| Description | Qty | Part# | Price \$ |
|--|-------|--------------|----------|
| Agilent (HP) Short Graphite Ferrules, 1/16 in. Fitting to 0.4 mm OD Column | 10/pk | 392611914 | OEM |
| | 50/pk | 392611914-50 | |
| Agilent (HP) Short Graphite Ferrules, 1/16 in. Fitting to 0.5 mm OD Column | 10/pk | 392611915 | OEM |
| | 50/pk | 392611915-50 | |
| Agilent (HP) Short Graphite Ferrules, 1/16 in. Fitting to 0.8 mm OD Column | 10/pk | 392611916 | OEM |
| | 50/pk | 392611916-50 | |

Graphite Ferrules

Jacketed Graphite Ferrules & Capillary Nuts

- Graphite Ferrules for Capillary Columns, jacketed in brass
- Capillary Nut to Fit Jacketed Ferrules
- Stable to 450°C
- Does not stick to Glass or Fused Silica
- Packaged in "Ultra Clean" Glass Bottles



| Description | Qty | Part# | Price \$ |
|---|----------------|---------------------------|----------|
| Jacketed Ferrules for Varian 1078 Inj., Brass Jacket, 0.4 mm Graphite Ferrule | 10/pk 50/pk | 392611912 392611912-50 | OEM |
| Jacketed Ferrules for Varian 1078 Inj., Brass Jacket, 0.5 mm Graphite Ferrule | 10/pk 50/pk | 392611913 392611913-50 | OEM |
| Jacketed Ferrules for Varian 1078 Inj., Brass Jacket, 0.8 mm Graphite Ferrule | 10/pk 50/pk | 392611755 392611755-50 | OEM |
| Capillary Nut for Varian 1078 Injector, Brass Column Scale Nut | 1/pk 10/pk | 392611910 392611911 | OEM |

Graphite O-Rings

- For Agilent and Varian 1177 Injectors
- Excellent thermal stability at injection port temperatures up to 450°C
- Packaged in "Ultra Clean" Glass Bottles



| Description | Qty | Part# | Price \$ |
|--|----------------|---------------------------|----------|
| Graphite O-rings, 6.3 mm ID, to fit HP Split 6.3 mm OD liners | 10/pk 50/pk | 392611935 392611935-50 | OEM |
| Graphite O-rings, 6.5 mm ID, Same as HP 5180-4173 | 10/pk 50/pk | 392611930 392611930-50 | OEM |
| Viton O-Rings 250°C One Size Fits Split/ 6.3 mm & Splitless/ 6.5 mm OD Liners | 10/pk 50/pk | 392611764 392611764-50 | OEM |
| Graphite O-rings, 6.5 mm I.D. to Fit 1177 Injector, Glass Liners | 10/pk 50/pk | 392611940 392611940-50 | OEM |
| Graphite O-Rings for Varian and Hp Liners, 450°C, 6.3 mm I.D. for Split Liners | 10/pk 50/pk | 392611761 392611761-50 | OEM |
| Graphite O-Rings for Varian and HP Liners, 6.5 mm I.D. for Splitless Liners | 10/pk 50/pk | 392611762 392611762-50 | OEM |
| Graphite O-Rings for Varian 1177 and HP Liners, 6.5 mm I.D. | 10/pk 50/pk | 392611918 392611918-50 | OEM |

Graphite Ferrules

Special Graphite Ferrule for Varian Liners, 450°C

- For Varian Split/Splitless 1075/1077/1078 Liners
- Stable to 450°C
- High Density Graphite
- Smooth & Clean Edges - Better than Conventional Graphite Ferrules
- Packaged in "Ultra Clean" Glass Bottles



| Description | Qty | Part# | Price \$ |
|--|----------------|---------------------------|----------|
| Special 1/4 in. Graphite Ferrule for Varian Split/Splitless 1075/1077 Liner 394936200 | 10/pk 50/pk | 392611763 392611763-50 | OEM |
| Special 5 mm Graphite Ferrule for Varian Split/Splitless 1078 Inj. Liners 392534200 | 10/pk 50/pk | 392611919 392611919-50 | OEM |

Capillary Graphite Ferrules for 1/16" Compression-Type Ferrules

- For Agilent Injectors & Detectors; 5890/6890/7890 GCs
- Stable to 450°C
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-------------------------|----------------|----------------|-------------------|----------|
| 1/16" x No Hole "Short" | No Hole | 10/pk 50/pk | 32151 32151-50 | OEM |
| 1/16" X 0.3 mm | 0.1 mm | 10/pk 50/pk | 32152 32152-50 | OEM |
| 1/16" X 0.4 mm | 0.2-0.25 mm | 10/pk 50/pk | 32153 32153-50 | OEM |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk 50/pk | 32154 32154-50 | OEM |
| 1/16" X 0.8 mm | 0.53 mm | 10/pk 50/pk | 32155 32155-50 | OEM |
| 1/16" X 1.0 mm | 0.65 mm | 10/pk 50/pk | 32156 32156-50 | OEM |

Short Graphite Ferrules HP Style

- For Agilent Injectors & Columns
- Stable to 450°C
- High Purity Graphite, Preferred for Capillary GC Use
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|----------------|----------------|----------------|-------------------|----------|
| 1/16" X 0.4 mm | 0.2-0.25 mm | 10/pk 50/pk | 32160 32160-50 | OEM |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk 50/pk | 32161 32161-50 | OEM |
| 1/16" X 0.8 mm | 0.53 mm | 10/pk 50/pk | 32162 32162-50 | OEM |
| 1/16" X 1.0 mm | 0.65 mm | 10/pk 50/pk | 32163 32163-50 | OEM |
| 1/16" X 1.2 mm | 0.75 mm | 10/pk 50/pk | 32164 32164-50 | OEM |

Graphite Ferrules

Standard Graphite Capillary 1/16" Ferrules

- Stable to 450°C
- High Purity Graphite, Preferred for Capillary GC Use
- High Density Graphite
- Preconditioned to Eliminate Out-Gassing
- Does not stick to Glass or Fused Silica
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-----------------|-----------------|-------|----------|----------|
| 1/16" x No Hole | No Hole | 10/pk | 32167 | OEM |
| | | 50/pk | 32167-50 | |
| 1/16" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32168 | OEM |
| | | 50/pk | 32168-50 | |
| 1/16" X 0.3 mm | 0.1 mm | 10/pk | 32169 | OEM |
| | | 50/pk | 32169-50 | |
| 1/16" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32170 | OEM |
| | | 50/pk | 32170-50 | |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk | 32171 | OEM |
| | | 50/pk | 32171-50 | |
| 1/16" X 0.8 mm | 0.45 - 0.53 mm | 10/pk | 32172 | OEM |
| | | 50/pk | 32172-50 | |
| 1/16" X 1.0 mm | 0.65 mm | 10/pk | 32173 | OEM |
| | | 50/pk | 32173-50 | |
| 1/16" X 1.2 mm | 0.75 mm | 10/pk | 32174 | OEM |
| | | 50/pk | 32174-50 | |

1/16" Long Graphite Capillary Column Ferrules

- Height = .150"
- Stable to 450°C
- Does not stick to Glass or Fused Silica
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-----------------|-----------------|-------|----------|----------|
| 1/16" x No Hole | No Hole | 10/pk | 32188 | OEM |
| | | 50/pk | 32188-50 | |
| 1/16" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32189 | OEM |
| | | 50/pk | 32189-50 | |
| 1/16" X 0.4 mm | 0.25 mm | 10/pk | 32190 | OEM |
| | | 50/pk | 32190-50 | |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk | 32191 | OEM |
| | | 50/pk | 32191-50 | |
| 1/16" X 0.8 mm | 0.53 mm | 10/pk | 32192 | OEM |
| | | 50/pk | 32192-50 | |
| 1/16" X 1.0 mm | 0.65 mm | 10/pk | 32193 | OEM |
| | | 50/pk | 32193-50 | |
| 1/16" X 1.2 mm | 0.75 mm | 10/pk | 32194 | OEM |
| | | 50/pk | 32194-50 | |

Graphite Ferrules

1/16" Extra Long Graphite Capillary Column Ferrules

- Height = .157"
- Stable to 450°C
- High Purity/Density Graphite, Preferred for Capillary GC Use
- Preconditioned to Eliminate Out-Gassing
- Does not stick to Glass or Fused Silica
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-----------------|-----------------|-------|----------|----------|
| 1/16" x No Hole | No Hole | 10/pk | 32178 | OEM |
| | | 50/pk | 32178-50 | |
| 1/16" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32179 | OEM |
| | | 50/pk | 32179-50 | |
| 1/16" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32180 | OEM |
| | | 50/pk | 32180-50 | |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk | 32181 | OEM |
| | | 50/pk | 32181-50 | |
| 1/16" X 0.8 mm | 0.53 mm | 10/pk | 32182 | OEM |
| | | 50/pk | 32182-50 | |
| 1/16" X 1.0 mm | 0.65 mm | 10/pk | 32183 | OEM |
| | | 50/pk | 32183-50 | |
| 1/16" X 1.2 mm | 0.75 mm | 10/pk | 32184 | OEM |
| | | 50/pk | 32184-50 | |

1/16" Long Taper, Graphite Capillary Column Ferrules

- Height = .180"
- Stable to 450°C
- Contains No Binders that can Out-Gas or Absorb Analytes
- Smooth & Clean Edges - Better than Conventional Graphite Ferrules
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-----------------|-----------------|-------|----------|----------|
| 1/16" x No Hole | No Hole | 10/pk | 32198 | OEM |
| | | 50/pk | 32198-50 | |
| 1/16" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32199 | OEM |
| | | 50/pk | 32199-50 | |
| 1/16" X 0.4 mm | 0.25 mm | 10/pk | 32200 | OEM |
| | | 50/pk | 32200-50 | |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk | 32201 | OEM |
| | | 50/pk | 32201-50 | |
| 1/16" X 0.8 mm | 0.53 mm | 10/pk | 32202 | OEM |
| | | 50/pk | 32202-50 | |
| 1/16" X 1.0 mm | 0.65 mm | 10/pk | 32203 | OEM |
| | | 50/pk | 32203-50 | |
| 1/16" X 1.2 mm | 0.75 mm | 10/pk | 32204 | OEM |
| | | 50/pk | 32204-50 | |

Graphite Ferrules

Two Hole Graphite 1/16" Ferrules

- Stable to 450°C
- High Purity Graphite, Preferred for Capillary GC Use
- High Density Graphite
- Does not stick to Glass or Fused Silica
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-------------------------|----------------|-------|----------|----------|
| 1/16" X 0.4 mm (2-hole) | 0.2 - 0.25 mm | 10/pk | 32207 | OEM |
| | | 50/pk | 32207-50 | |
| 1/16" X 0.5 mm (2-hole) | 0.32 mm | 10/pk | 32208 | OEM |
| | | 50/pk | 32208-50 | |
| 1/16" X 0.8 mm (2-hole) | 0.53 mm | 10/pk | 32209 | OEM |
| | | 50/pk | 32209-50 | |

Standard, Graphite Capillary & Reducing 1/8" Ferrules

- Stable to 450°C
- Preconditioned to Eliminate Out-Gassing
- Contains No Binders that can Out-Gas or Absorb Analytes
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|----------------|-----------------|-------|----------|----------|
| 1/8" x No Hole | No Hole | 10/pk | 32215 | OEM |
| | | 50/pk | 32215-50 | |
| 1/8" X 1/8" | 1/8" TUBE O.D. | 10/pk | 32216 | OEM |
| | | 50/pk | 32216-50 | |
| 1/8" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32217 | OEM |
| | | 50/pk | 32217-50 | |
| 1/8" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32218 | OEM |
| | | 50/pk | 32218-50 | |
| 1/8" X 0.5 mm | 0.32 mm | 10/pk | 32219 | OEM |
| | | 50/pk | 32219-50 | |
| 1/8" X 0.8 mm | 0.45-0.53 mm | 10/pk | 32220 | OEM |
| | | 50/pk | 32220-50 | |
| 1/8" X 1.0 mm | 0.65 mm | 10/pk | 32221 | OEM |
| | | 50/pk | 32221-50 | |
| 1/8" X 1.2 mm | 0.75 mm | 10/pk | 32222 | OEM |
| | | 50/pk | 32222-50 | |

Graphite Ferrules

1/8" Graphite Ferrule

- Length = 0.265"
- Stable to 450°C
- Smooth & Clean Edges - Better than Conventional Graphite Ferrules
- Does not stick to Glass or Fused Silica
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|----------------|-----------------|-------|----------|----------|
| 1/8" x No Hole | No Hole | 10/pk | 32226 | OEM |
| | | 50/pk | 32226-50 | |
| 1/8" X 1/8" | 1/8" TUBE O.D. | 10/pk | 32227 | OEM |
| | | 50/pk | 32227-50 | |
| 1/8" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32228 | OEM |
| | | 50/pk | 32228-50 | |
| 1/8" X 0.4 mm | 0.25 mm | 10/pk | 32229 | OEM |
| | | 50/pk | 32229-50 | |
| 1/8" X 0.5 mm | 0.32 mm | 10/pk | 32230 | OEM |
| | | 50/pk | 32230-50 | |
| 1/8" X 0.8 mm | 0.53 mm | 10/pk | 32231 | OEM |
| | | 50/pk | 32231-50 | |
| 1/8" X 1.0 mm | 0.65 mm | 10/pk | 32232 | OEM |
| | | 50/pk | 32232-50 | |
| 1/8" X 1.2 mm | 0.75 mm | 10/pk | 32233 | OEM |
| | | 50/pk | 32233-50 | |

1/8" Graphite Ferrule (With Tail)

- Length = 0.300"
- Stable to 450°C
- High Density Graphite
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|---------------|-----------------|-------|----------|----------|
| 1/8" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32237 | OEM |
| | | 50/pk | 32237-50 | |
| 1/8" X 0.4 mm | 0.25 mm | 10/pk | 32238 | OEM |
| | | 50/pk | 32238-50 | |
| 1/8" X 0.5 mm | 0.32 mm | 10/pk | 32239 | OEM |
| | | 50/pk | 32239-50 | |
| 1/8" X 0.8 mm | 0.53 mm | 10/pk | 32240 | OEM |
| | | 50/pk | 32240-50 | |
| 1/8" X 1.0 mm | 0.65 mm | 10/pk | 32241 | OEM |
| | | 50/pk | 32241-50 | |
| 1/8" X 1.2 mm | 0.75 mm | 10/pk | 32242 | OEM |
| | | 50/pk | 32242-50 | |

Graphite Ferrules

1/8" Graphite Front Ferrules

- Length = 0.200"
- Stable to 450°C
- Smooth & Clean Edges - Better than Conventional Graphite Ferrules
- Does not stick to Glass or Fused Silica
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|---------------|----------------|-------|----------|----------|
| 1/8" X 1/8" | 1/8" O.D. TUBE | 10/pk | 32246 | OEM |
| | | 50/pk | 32246-50 | |
| 1/8" X 1.2 mm | 0.75 mm | 10/pk | 32247 | OEM |
| | | 50/pk | 32247-50 | |

1/8" Graphite Two Hole Ferrules

- Stable to 450°C
- High Purity Graphite, Preferred for Capillary GC Use
- High Density Graphite
- Preconditioned to Eliminate Out-Gassing
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|------------------------|----------------|-------|----------|----------|
| 1/8" X 0.5 mm (2-hole) | 0.32 mm | 10/pk | 32250 | OEM |
| | | 50/pk | 32250-50 | |
| 1/8" X 0.8 mm (2-hole) | 0.53 mm | 10/pk | 32251 | OEM |
| | | 50/pk | 32251-50 | |

3/16" Graphite Ferrule

- Stable to 450°C
- Contains No Binders that can Out-Gas or Absorb Analytes
- Smooth & Clean Edges - Better than Conventional Graphite Ferrules
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|---------------|-----------------|-------|----------|----------|
| 3/16" X 3/16" | 3/16" TUBE O.D. | 10/pk | 32254 | OEM |
| | | 50/pk | 32254-50 | |

Graphite Ferrules

Standard, Capillary & Reducing 1/4" Graphite Ferrules

- Stable to 450°C
- High Density Graphite
- Preconditioned to Eliminate Out-Gassing
- Does not stick to Glass or Fused Silica
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-------------------------|------------------|-------|----------|----------|
| 1/4" x No Hole | No Hole | 10/pk | 32257 | OEM |
| | | 50/pk | 32257-50 | |
| 1/4" X 1/4" | 1/4" TUBE O.D. | 10/pk | 32258 | OEM |
| | | 50/pk | 32258-50 | |
| 1/4" X 1/8" | 1/8" TUBE O.D. | 10/pk | 32259 | OEM |
| | | 50/pk | 32259-50 | |
| 1/4" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32260 | OEM |
| | | 50/pk | 32260-50 | |
| 1/4" X 3/16" | 3/16" TUBE O.D. | 10/pk | 32261 | OEM |
| | | 50/pk | 32261-50 | |
| 1/4" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32262 | OEM |
| | | 50/pk | 32262-50 | |
| 1/4" X 0.5 mm | 0.32 mm | 10/pk | 32263 | OEM |
| | | 50/pk | 32263-50 | |
| 1/4" X 0.8 mm | 0.53 mm | 10/pk | 32264 | OEM |
| | | 50/pk | 32264-50 | |
| 1/4" X 1.0 mm | 0.65 mm | 10/pk | 32265 | OEM |
| | | 50/pk | 32265-50 | |
| 1/4" X 1.2 mm | 0.75 mm | 10/pk | 32266 | OEM |
| | | 50/pk | 32266-50 | |
| 1/4" X 4.0 mm | 4.0 mm TUBE O.D. | 10/pk | 32267 | OEM |
| | | 50/pk | 32267-50 | |
| 1/4" X 6.0 mm | 6.0 mm TUBE O.D. | 10/pk | 32268 | OEM |
| | | 50/pk | 32268-50 | |
| 1/4" X 6.0 mm DBL TAPER | 6.0 mm TUBE O.D. | 10/pk | 32269 | OEM |
| | | 50/pk | 32269-50 | |

Graphite Ferrules

1/4" Front Graphite Ferrules

- Stable to 450°C
- High Density Graphite
- Smooth & Clean Edges - Better than Conventional Graphite Ferrules
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|---------------|------------------|-------|----------|----------|
| 1/4" X 1/4" | 1/4" TUBE O.D. | 10/pk | 32272 | OEM |
| | | 50/pk | 32272-50 | |
| 1/4" X 1/8" | 1/8" TUBE O.D. | 10/pk | 32273 | OEM |
| | | 50/pk | 32273-50 | |
| 1/4" X 6.0 mm | 6.0 mm TUBE O.D. | 10/pk | 32274 | OEM |
| | | 50/pk | 32274-50 | |

Large Graphite Ferrules

- Stable to 450°C
- Larger Ferrules for Large Tube Applications
- Does not stick to Glass or Fused Silica
- For High Temperature Applications



| Description | Fits Column OD | Qty. | Part# | Price \$ |
|-------------|-----------------|-------|----------|----------|
| 6 mm | 6 mm TUBE O.D. | 10/pk | 32277 | OEM |
| | | 50/pk | 32277-50 | |
| 8 mm | 8 mm TUBE O.D. | 10/pk | 32278 | OEM |
| | | 50/pk | 32278-50 | |
| 10 mm | 10 mm TUBE O.D. | 10/pk | 32279 | OEM |
| | | 50/pk | 32279-50 | |
| 12 mm | 12 mm TUBE O.D. | 10/pk | 32280 | OEM |
| | | 50/pk | 32280-50 | |
| 3/8" | 3/8" TUBE O.D. | 10/pk | 32281 | OEM |
| | | 50/pk | 32281-50 | |
| 3/8" | No Hole | 10/pk | 32282 | OEM |
| | | 50/pk | 32282-50 | |
| 1/2" | 1/2" TUBE O.D. | 10/pk | 32283 | OEM |
| | | 50/pk | 32283-50 | |
| 5/8" | 5/8" TUBE O.D. | 10/pk | 32284 | OEM |
| | | 50/pk | 32284-50 | |
| 3/4" | 3/4" TUBE O.D. | 10/pk | 32285 | OEM |
| | | 50/pk | 32285-50 | |
| 7/8" | 7/8" TUBE O.D. | 10/pk | 32286 | OEM |
| | | 50/pk | 32286-50 | |
| 1" | 1" TUBE O.D. | 10/pk | 32287 | OEM |
| | | 50/pk | 32287-50 | |
| 1.25" | 1.25" TUBE O.D. | 10/pk | 32288 | OEM |
| | | 50/pk | 32288-50 | |
| 1.50" | 1.50" TUBE O.D. | 10/pk | 32289 | OEM |
| | | 50/pk | 32289-50 | |

Graphite Ferrules

Mini Union MSUV, 100% Graphite Ferrules

- Stable to 450°C
- Smooth & Clean Edges - Better than Conventional Graphite Ferrules
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-------------|----------------|-------|----------|----------|
| 0.5 mm ID | 0.25- 0.32 mm | 10/pk | 32290 | OEM |
| | | 50/pk | 32290-50 | |
| 0.8 mm ID | 0.53 mm | 10/pk | 32291 | OEM |
| | | 50/pk | 32291-50 | |

Carlo Erba, Graphite Ferrules

- Fit most Carlo Erba Instruments
- Stable to 450°C
- High Purity Graphite, Preferred for Capillary GC Use
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-------------|----------------|-------|----------|----------|
| 0.5 mm ID | M5 NUT | 10/pk | 32294 | OEM |
| | | 50/pk | 32294-50 | |
| 0.8 mm ID | M8 NUT | 10/pk | 32295 | OEM |
| | | 50/pk | 32295-50 | |

Shimadzu, Graphite Ferrules

- 5mm Fit Shimadzu 17A GCs
- 1/16" Fits 17A, 2010, 2014 GCs
- Stable to 450°C
- Preconditioned to Eliminate Out-Gassing
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|--------------------------|------------------|-------|----------|----------|
| 5.0 mm | 5.0 mm TUBE O.D. | 10/pk | 32298 | OEM |
| | | 50/pk | 32298-50 | |
| 1/16" X 0.5 mm (2-Piece) | 0.35 mm | 10/pk | 32299 | OEM |
| | | 50/pk | 32299-50 | |
| 1/16" X 0.8 mm (2-Piece) | 0.53 mm | 10/pk | 32300 | OEM |
| | | 50/pk | 32300-50 | |
| 1/16" X 0.5 mm | 0.35 mm | 10/pk | 32301 | OEM |
| | | 50/pk | 32301-50 | |
| 1/16" x 0.8 mm | 0.53 mm | 10/pk | 32302 | OEM |
| | | 50/pk | 32302-50 | |

Graphite Ferrules

Graphite O-Rings/Sealing O-Rings

- Excellent thermal stability at injection port
- Temperature Stability to 450°C
- Contains No Binders that can Out-Gas or Absorb Analytes
- Smooth & Clean Edges - Better than Conventional Graphite Ferrules
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|--------------------------|-----------------|-------|----------|----------|
| 6.35 mm ID/ 9.63 mm O.D. | 6.35 mm | 10/pk | 32305 | OEM |
| | | 50/pk | 32305-50 | |
| 6.52 MM ID/ 9.63 mm O.D. | 6.52 mm | 10/pk | 32306 | OEM |
| | | 50/pk | 32306-50 | |
| 1/16" Sealing O-Ring | 1/16" TUBE O.D. | 10/pk | 32307 | OEM |
| | | 50/pk | 32307-50 | |
| 1/8" Sealing O-Ring | 1/8" TUBE O.D. | 10/pk | 32308 | OEM |
| | | 50/pk | 32308-50 | |
| 1/4" Sealing O-Ring | 1/4" TUBE O.D. | 10/pk | 32309 | OEM |
| | | 50/pk | 32309-50 | |

Ultra Clean Graphite Ferrule, 450°C

- Temperature Programmed Conditioning at 400°C
- Fifty Programmed Ramp Ups in GC oven
- Stable to 450°C
- High Density Graphite
- Smooth & Clean Edges - Better than Conventional Graphite Ferrules
- Packaged in "Ultra Clean" Glass Bottles with Special Yellow "Keep Clean" Label



| Description | Qty | Part# | Price \$ |
|--|-------|-----------|----------|
| Ultra Clean 5mm Preconditioned Graphite Ferrules for Varian, Bruker & Agilent Chromatographs | 2/pk | 392534202 | OEM |
| | 10/pk | 392534201 | |

Custom products & bulk pricing available. Email or fax us with your specifications for more information.

100% Polyimide (Vespel®) Ferrules

- 350° C Upper Temperature Limit. One Piece Ferrule Design
- May Bleed at Higher Temperatures
- Excellent Physical Properties 100% High Temperature Polyimide (Vespel®)
- Does not Cold Flow
- Packaged in "Ultra Clean" Glass Bottles



| Description | Qty | Part# | Price \$ |
|---|-------|--------------|----------|
| Polyimide (Vespel®) Ferrules, 350°C, 1/16 in. Fitting to No Hole (Blanks) | 10/pk | 392611766 | OEM |
| | 50/pk | 392611766-50 | |
| Polyimide (Vespel®) Ferrules, 350°C, 1/16 in. Fitting to 1/16 in. OD Tube | 10/pk | 392611765 | OEM |
| | 50/pk | 392611765-50 | |
| Polyimide (Vespel®) Ferrules, 350°C, 1/8 in. Fitting to No Hole (Blanks) | 10/pk | 392611769 | OEM |
| | 50/pk | 392611769-50 | |
| Polyimide (Vespel®) Ferrules, 350°C, 1/8 in. Fitting Reducing to 1/16 in. OD Tube | 10/pk | 392611767 | OEM |
| | 50/pk | 392611767-50 | |
| Polyimide (Vespel®) Ferrules, 350°C, 1/8 in. Fitting to 1/8 in. OD Tube | 10/pk | 392611768 | OEM |
| | 50/pk | 392611768-50 | |
| Polyimide (Vespel®) Ferrules, 350°C, 1/4 in. Fitting Reducing to 1/16 in. OD Tube | 10/pk | 392611770 | OEM |
| | 50/pk | 392611770-50 | |
| Polyimide (Vespel®) Ferrules, 350°C, 1/4 in. Fitting Reducing to 1/8 in. OD Tube | 10/pk | 392611771 | OEM |
| | 50/pk | 392611771-50 | |
| Polyimide (Vespel®) Ferrules, 350°C, 1/4 in. Fitting to 1/4 in. OD Tube | 10/pk | 392611772 | OEM |
| | 50/pk | 392611772-50 | |
| Polyimide (Vespel®) Ferrules, 350°C, 1/4 in. Fitting to No Hole (Blanks) | 10/pk | 392611774 | OEM |
| | 50/pk | 392611774-50 | |

Capillary Ferrules for 1/16" Compression-Type Ferrules

- 100% Polyimide (Vespel®)
- For Agilent Injectors & Detectors; 5890/6890/7890 GCs
- Does not Cold Flow
- Packaged in "Ultra Clean" Glass Bottle



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-------------------------|----------------|-------|----------|----------|
| 1/16" x No Hole "Short" | No Hole | 10/pk | 32000 | OEM |
| | | 50/pk | 32000-50 | |
| 1/16" X 0.3 mm | 0.1 mm | 10/pk | 32001 | OEM |
| | | 50/pk | 32001-50 | |
| 1/16" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32002 | OEM |
| | | 50/pk | 32002-50 | |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk | 32003 | OEM |
| | | 50/pk | 32003-50 | |
| 1/16" X 0.8 mm | 0.53 mm | 10/pk | 32004 | OEM |
| | | 50/pk | 32004-50 | |

Standard Capillary Ferrules

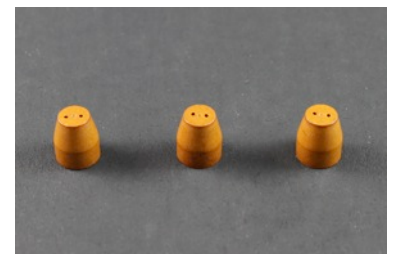
- 100% Polyimide (Vespel®)
- 350° C Upper Temperature Limit. One Piece Ferrule Design
- Excellent Physical Properties 100% High Temperature Polyimide (Vespel®)
- Does not Cold Flow
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-----------------|-----------------|-------|----------|----------|
| 1/16" x No Hole | No Hole | 10/pk | 32005 | OEM |
| | | 50/pk | 32005-50 | |
| 1/16" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32006 | OEM |
| | | 50/pk | 32006-50 | |
| 1/16" X 0.3 mm | 0.1 mm | 10/pk | 32007 | OEM |
| | | 50/pk | 32007-50 | |
| 1/16" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32008 | OEM |
| | | 50/pk | 32008-50 | |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk | 32009 | OEM |
| | | 50/pk | 32009-50 | |
| 1/16" X 0.8 mm | 0.45 - 0.53 mm | 10/pk | 32010 | OEM |
| | | 50/pk | 32010-50 | |
| 1/16" X 1.0 mm | 0.65 mm | 10/pk | 32011 | OEM |
| | | 50/pk | 32011-50 | |
| 1/16" X 1.2 mm | 0.75 mm | 10/pk | 32012 | OEM |
| | | 50/pk | 32012-50 | |

Two Hole Capillary Ferrules

- 100% Polyimide (Vespel®)
- 350° C Upper Temperature Limit. One Piece Ferrule Design
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-------------------------|----------------|-------|----------|----------|
| 1/16" X 0.4 mm (2-hole) | 0.2 - 0.25 mm | 10/pk | 32015 | OEM |
| | | 50/pk | 32015-50 | |
| 1/16" X 0.5 mm (2-hole) | 0.32 mm | 10/pk | 32016 | OEM |
| | | 50/pk | 32016-50 | |
| 1/16" X 0.8 mm (2-hole) | 0.53 mm | 10/pk | 32017 | OEM |
| | | 50/pk | 32017-50 | |

Standard, Capillary & Reducing 1/8" Ferrules

- 100% Polyimide (Vespel®)
- 350° C Upper Temperature Limit. One Piece Ferrule Design
- Does not Cold Flow
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|----------------|------------------|----------------|-------------------|----------|
| 1/8" x No Hole | No Hole | 10/pk 50/pk | 32020 32020-50 | OEM |
| 1/8" X 1/8" | 1/8" TUBE O.D. | 10/pk 50/pk | 32021 32021-50 | OEM |
| 1/8" X 1/16" | 1/16" TUBE O.D. | 10/pk 50/pk | 32022 32022-50 | OEM |
| 1/8" X 0.4 mm | 0.2 -0.25 mm | 10/pk 50/pk | 32023 32023-50 | OEM |
| 1/8" X 0.5 mm | 0.32 mm | 10/pk 50/pk | 32024 32024-50 | OEM |
| 1/8" X 0.8 mm | 0.45 - 0.53 mm | 10/pk 50/pk | 32025 32025-50 | OEM |
| 1/8" X 1.0 mm | 0.65 mm | 10/pk 50/pk | 32026 32026-50 | OEM |
| 1/8" X 1.2 mm | 0.75 mm | 10/pk 50/pk | 32027 32027-50 | OEM |
| 1/8" X 2.4 mm | 2.4 mm TUBE O.D. | 10/pk 50/pk | 32028 32028-50 | OEM |

Two Hole 1/8" Ferrules

- 100% Polyimide (Vespel®)
- 350° C Upper Temperature Limit. One Piece Ferrule Design
- Excellent Physical Properties 100% High Temperature Polyimide (Vespel®)
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|------------------------|----------------|----------------|-------------------|----------|
| 1/8" X 0.5 mm (2-hole) | 0.32 mm | 10/pk 50/pk | 32031 32031-50 | OEM |
| 1/8" X 0.8 mm (2-hole) | 0.53 mm | 10/pk 50/pk | 32032 32032-50 | OEM |

Standard, Capillary & Reducing 1/4" Ferrules

- 100% Polyimide (Vespel®)
- 350° C Upper Temperature Limit. One Piece Ferrule Design
- May Bleed at Higher Temperatures
- Excellent Physical Properties 100% High Temperature Polyimide (Vespel®)
- Does not Cold Flow
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|----------------|------------------|-------|----------|----------|
| 1/4" x No Hole | No Hole | 10/pk | 32035 | OEM |
| | | 50/pk | 32035-50 | |
| 1/4" X 1/4" | 1/4" TUBE O.D. | 10/pk | 32036 | OEM |
| | | 50/pk | 32036-50 | |
| 1/4" X 1/8" | 1/8" TUBE O.D. | 10/pk | 32037 | OEM |
| | | 50/pk | 32037-50 | |
| 1/4" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32038 | OEM |
| | | 50/pk | 32038-50 | |
| 1/4" X 3/16" | 3/16" TUBE O.D. | 10/pk | 32039 | OEM |
| | | 50/pk | 32039-50 | |
| 1/4" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32040 | OEM |
| | | 50/pk | 32040-50 | |
| 1/4" X 0.5 mm | 0.32 mm | 10/pk | 32041 | OEM |
| | | 50/pk | 32041-50 | |
| 1/4" X 0.8 mm | 0.53 mm | 10/pk | 32042 | OEM |
| | | 50/pk | 32042-50 | |
| 1/4" X 1.0 mm | 0.65 mm | 10/pk | 32043 | OEM |
| | | 50/pk | 32043-50 | |
| 1/4" X 1.2 mm | 0.75 mm | 10/pk | 32044 | OEM |
| | | 50/pk | 32044-50 | |
| 1/4" X 4.0 mm | 4.0 mm TUBE O.D. | 10/pk | 32045 | OEM |
| | | 50/pk | 32045-50 | |
| 1/4" X 6.0 mm | 6.0 mm TUBE O.D. | 10/pk | 32046 | OEM |
| | | 50/pk | 32046-50 | |

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Teflon® Ferrules

Teflon® Ferrules

- 250° C Upper Temperature Limit
- Non Sticking. One Piece Ferrule Design
- 100% Teflon® (PTFE). Chemically Inert
- Packaged in "Ultra Clean" Glass Bottles



| Description | Qty | Part# | Price \$ |
|---|----------------|---------------------------|----------|
| Teflon® Ferrules, 250°C, 1/16 in. Fitting to 1/16 in. OD Tube | 10/pk 50/pk | 392611775 392611775-50 | OEM |
| Teflon® Ferrules, 250°C, 1/16 in. Fitting to No Hole (Blanks) | 10/pk 50/pk | 392611776 392611776-50 | OEM |
| Teflon® Ferrules, 250°C, 1/8 in. Fitting Reducing to 1/16 in. OD Tube | 10/pk 50/pk | 392611777 392611777-50 | OEM |
| Teflon® Ferrules, 250°C, 1/8 in. Fitting to 1/8 in. OD Tube | 10/pk 50/pk | 392611778 392611778-50 | OEM |
| Teflon® Ferrules, 250°C, 1/4 in. Fitting Reducing to 6 mm OD Tube | 10/pk 50/pk | 392611783 392611783-50 | OEM |
| Teflon® Ferrules, 250°C, 1/4 in. Fitting to No Hole (Blanks) | 10/pk 50/pk | 392611784 392611784-50 | OEM |
| Teflon® Ferrules, 250°C, 1/8 in. Fitting to No Hole (Blanks) | 10/pk 50/pk | 392611779 392611779-50 | OEM |
| Teflon® Ferrules, 250°C, 1/4 in Fitting Reducing to 1/16 in. OD Tube | 10/pk 50/pk | 392611780 392611780-50 | OEM |
| Teflon® Ferrules, 250°C, 1/4 in. Fitting Reducing to 1/8 in. OD Tube | 10/pk 50/pk | 392611781 392611781-50 | OEM |
| Teflon® Ferrules, 250°C, 1/4 in. Fitting Reducing to 1/4 in. OD Tube | 10/pk 50/pk | 392611782 392611782-50 | OEM |

Capillary Ferrules for 1/16" Compression-Type Ferrules

- 100% Teflon® (PTFE)
- Standard Capillary Ferrules
- 250° C Upper Temperature Limit
- Non Sticking, One Piece Ferrule Design
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-----------------|-----------------|-------|----------|----------|
| 1/16" x No Hole | No Hole | 10/pk | 32316 | OEM |
| | | 50/pk | 32316-50 | |
| 1/16" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32317 | OEM |
| | | 50/pk | 32317-50 | |
| 1/16" X 0.3 mm | 0.1 mm | 10/pk | 32318 | OEM |
| | | 50/pk | 32318-50 | |
| 1/16" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32319 | OEM |
| | | 50/pk | 32319-50 | |
| 1/16" X 0.5 mm | 0.32 mm | 10/pk | 32320 | OEM |
| | | 50/pk | 32320-50 | |
| 1/16" X 0.8 mm | 0.45 - 0.53 mm | 10/pk | 32321 | OEM |
| | | 50/pk | 32321-50 | |
| 1/16" X 1.0 mm | 0.65 mm | 10/pk | 32322 | OEM |
| | | 50/pk | 32322-50 | |
| 1/16" X 1.2 mm | 0.75 mm | 10/pk | 32323 | OEM |
| | | 50/pk | 32323-50 | |

1/16" Two Hole Capillary Ferrules

- 100% Teflon® (PTFE)
- 250° C Upper Temperature Limit
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|-------------------------|----------------|-------|----------|----------|
| 1/16" X 0.4 mm (2-hole) | 0.2 - 0.25 mm | 10/pk | 32326 | OEM |
| | | 50/pk | 32326-50 | |
| 1/16" X 0.5 mm (2-hole) | 0.32 mm | 10/pk | 32327 | OEM |
| | | 50/pk | 32327-50 | |
| 1/16" X 0.8 mm (2-hole) | 0.53 mm | 10/pk | 32328 | OEM |
| | | 50/pk | 32328-50 | |

Standard, Capillary & Reducing 1/8" Ferrules

- 100% Teflon® (PTFE)
- 250° C Upper Temperature Limit
- Non Sticking. One Piece Ferrule Design
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|----------------|-----------------|-------|----------|----------|
| 1/8" x No Hole | No Hole | 10/pk | 32331 | OEM |
| | | 50/pk | 32331-50 | OEM |
| 1/8" X 1/8" | 1/8" TUBE O.D. | 10/pk | 32332 | OEM |
| | | 50/pk | 32332-50 | OEM |
| 1/8" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32333 | OEM |
| | | 50/pk | 32333-50 | OEM |
| 1/8" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32334 | OEM |
| | | 50/pk | 32334-50 | OEM |
| 1/8" X 0.5 mm | 0.32 mm | 10/pk | 32335 | OEM |
| | | 50/pk | 32335-50 | OEM |
| 1/8" X 0.8 mm | 0.45 - 0.53 mm | 10/pk | 32336 | OEM |
| | | 50/pk | 32336-50 | OEM |
| 1/8" X 1.0 mm | 0.65 mm | 10/pk | 32337 | OEM |
| | | 50/pk | 32337-50 | OEM |
| 1/8" X 1.2 mm | 0.75 mm | 10/pk | 32338 | OEM |
| | | 50/pk | 32338-50 | OEM |

Two Hole 1/8" Ferrules

- 100% Teflon® (PTFE)
- 250° C Upper Temperature Limit
- Non Sticking. One Piece Ferrule Design
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|------------------------|----------------|-------|----------|----------|
| 1/8" X 0.5 mm (2-hole) | 0.32 mm | 10/pk | 32341 | OEM |
| | | 50/pk | 32341-50 | OEM |
| 1/8" X 0.8 mm (2-hole) | 0.53 mm | 10/pk | 32342 | OEM |
| | | 50/pk | 32342-50 | OEM |

Teflon® Ferrules

Standard, Capillary & Reducing 1/4" Ferrules

- 100% Teflon® (PTFE)
- 250° C Upper Temperature Limit
- Non Sticking. One Piece Ferrule Design
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|----------------|------------------|-------|----------|----------|
| 1/4" x No Hole | No Hole | 10/pk | 32345 | OEM |
| | | 50/pk | 32345-50 | |
| 1/4" X 1/4" | 1/4" TUBE O.D. | 10/pk | 32346 | OEM |
| | | 50/pk | 32346-50 | |
| 1/4" X 1/8" | 1/8" TUBE O.D. | 10/pk | 32347 | OEM |
| | | 50/pk | 32347-50 | |
| 1/4" X 1/16" | 1/16" TUBE O.D. | 10/pk | 32348 | OEM |
| | | 50/pk | 32348-50 | |
| 1/4" X 3/16" | 3/16" TUBE O.D. | 10/pk | 32349 | OEM |
| | | 50/pk | 32349-50 | |
| 1/4" X 0.4 mm | 0.2 - 0.25 mm | 10/pk | 32350 | OEM |
| | | 50/pk | 32350-50 | |
| 1/4" X 0.5 mm | 0.32 mm | 10/pk | 32351 | OEM |
| | | 50/pk | 32351-50 | |
| 1/4" X 0.8 mm | 0.53 mm | 10/pk | 32352 | OEM |
| | | 50/pk | 32352-50 | |
| 1/4" X 1.0 mm | 0.65 mm | 10/pk | 32353 | OEM |
| | | 50/pk | 32353-50 | |
| 1/4" X 1.2 mm | 0.75 mm | 10/pk | 32354 | OEM |
| | | 50/pk | 32354-50 | |
| 1/4" X 4.0 mm | 4.0 mm TUBE O.D. | 10/pk | 32355 | OEM |
| | | 50/pk | 32355-50 | |
| 1/4" X 6.0 mm | 6.0 mm TUBE O.D. | 10/pk | 32356 | OEM |
| | | 50/pk | 32356-50 | |

Large ID Ferrules

- 100% Teflon® (PTFE)
- 250° C Upper Temperature Limit
- Packaged in "Ultra Clean" Glass Bottles



| Description | Fits Column ID | Qty. | Part# | Price \$ |
|----------------|----------------|-------|----------|----------|
| 3/8" x 3/8" | 3/8" TUBE O.D. | 10/pk | 32359 | OEM |
| | | 50/pk | 32359-50 | |
| 3/8" x No Hole | No Hole | 10/pk | 32360 | OEM |
| | | 50/pk | 32360-50 | |

Custom products & bulk pricing available. Email or fax us with your specifications for more information.

Specialty Ferrules

Specialty Ferrules

- Special Application Ferrules
- Available In Polyimide, Polyimide/Graphite and Brass
- Fits Some Varian & Bruker GC's

Specialty 60% Polyimide (Vespel®) /40% Graphite Ferrules

- Stable to 400°C
- Minimal Torque Required to Seal
- Reusable, One-piece Design, Precision Drilled
- Excellent for Vacuum & High Pressure Applications
- Packaged in "Ultra Clean" Glass Bottles



| Description | I.D. | Qty. | Part# | Price \$ |
|--|---------------|-------|---------------|----------|
| 1/16" 60% Polyimide (Vespel®)/40% Graphite, 0.145"-0.150" Height | 0.048"-0.050" | 10/pk | DY50502500-10 | OEM |

Specialty Brass Ferrules

- To Fit Special Varian/Bruker/Agilent Fittings
- High Temperature Rating



| Description | I.D. | O.D. | Qty. | Part# | Price \$ |
|---------------------------------|--------|--------|-------|--------------|----------|
| Brass, 40° Angle, 0.160" Height | 0.050" | 0.246" | 10/pk | 393753801-10 | OEM |

Specialty 100% Polyimide (Vespel®) Ferrules

- 350° C Upper Temperature Limit. One Piece Ferrule Design
- May Bleed at Higher Temperatures
- Excellent Physical Properties 100% High Temperature Polyimide (Vespel®)
- Does not Cold Flow
- Packaged in "Ultra Clean" Glass Bottles



| Description | I.D. | O.D. | Qty. | Part# | Price \$ |
|--|-----------------|---------|-------|--------------|----------|
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