

# Product by GC Manufacturer

## For Agilent Instruments



211105

### Ferrules - Graphite - Upper temp. 450°C

Packages of 10

Description		Item No.
<b>Capillary Column Ferrules</b>	<b>For Capillary Sizes - ID</b>	
1/16 in to 0.4 mm	0.25 mm	211104
1/16 in to 0.5 mm	0.32 mm	211105
1/16 in to 0.8 mm	0.53 mm	211108
1/16 in to 1.0 mm	0.65 mm	211110
1/16 in to 1.2 mm	0.75 mm	211112



211164

### Short Ferrules for Agilent Inlets\*

1/16 in to 0.4 mm	0.18 mm	211164
1/16 in to 0.5 mm	0.25 - 0.32 mm	211165
1/16 in to 0.8 mm	0.53 mm	211168
1/16 in to 1.0 mm	0.53 - 0.65 mm	211160



213105

### Ferrules - Vespel®/Graphite (60% Vespel/40% Graphite) - Upper temp. 400°C

Packages of 10

Description		Item No.
<b>Capillary Column Ferrules</b>	<b>For Capillary Sizes - ID</b>	
1/16 in to 0.3 mm	0.10 mm	213103
1/16 in to 0.5 mm	0.25 mm	213105
1/16 in to 0.8 mm	0.53 mm	213108
1/16 in to 1.0 mm	0.65 mm	213110



213164

### Short Ferrules for Agilent Inlets\*

1/16 in to 0.3 mm	0.10 mm	213163
1/16 in to 0.4 mm	0.25 mm	213164
1/16 in to 0.5 mm	0.32 mm	213165
1/16 in to 0.8 mm	0.53 mm	213168

\*Short ferrules for Agilent inlet systems: 5890, 6890 and 7890.



216635



216973

### Liner Seals; O-Ring

Graphite liner seals are designed for Agilent-style liners, in two different IDs. The O-Ring seal is made of Fluoroelastomer.

Description	Qty	Item No.
Graphite Liner Seal, 6.4 mm ID	10/pk	216635
Graphite Liner Seal, 6.5 mm ID	10/pk	216652
O-Ring made of Fluoroelastomer	12/pk	216973

## Premium Septa

Agilent Instrument	Septum Size
5880A, 5890, 6890, 6850, 7820, 7820A, 7890A	11 mm
On-column injection	5 mm

**BTO®** - Maximum temperature 400°C, low bleed

Description	Qty	Item No.
5 mm with CenterGuide™	50/pk	298787
11 mm with CenterGuide	50/pk	298717
11 mm with CenterGuide	100/pk	298718



298717

**Advanced Green 3™** - Maximum temperature 350°C, low bleed

Description	Qty	Item No.
5 mm with CenterGuide	50/pk	246525
11 mm with CenterGuide	50/pk	246225
11 mm with CenterGuide	100/pk	246228



246225

**Marathon™** - Maximum temperature 350°C, prepierced septa resist coring

Description	Qty	Item No.
5 mm with CenterGuide	50/pk	239597
11 mm with CenterGuide	50/pk	239297
11 mm with CenterGuide	100/pk	239888



239297

# Product by GC Manufacturer

## For Bruker Instruments (former Varian)



211112

### Ferrules - Graphite - Upper temp. 450°C

Packages of 10

Description		Item No.
<b>Capillary Column Ferrules</b>	<b>For Capillary Sizes - ID</b>	
1/16 in to 0.4 mm	0.25 mm	211104
1/16 in to 0.5 mm	0.32 mm	211105
1/16 in to 0.8 mm	0.53 mm	211108
1/16 in to 1.0 mm	0.65 mm	211110
1/16 in to 1.2 mm	0.75 mm	211112



213110

### Ferrules - Vespel®/Graphite (60% Vespel/40% Graphite) - Upper temp. 400°C

Packages of 10

Description		Item No.
<b>Capillary Column Ferrules</b>	<b>For Capillary Sizes - ID</b>	
1/16 in to 0.3 mm	0.10 mm	213103
1/16 in to 0.4 mm	0.25 mm	213104
1/16 in to 0.5 mm	0.32 mm	213105
1/16 in to 0.8 mm	0.53 mm	213108
1/16 in to 1.0 mm	0.65 mm	213110

### Liner Ferrule

Graphite liner ferrule is designed for Varian.

Description	Qty	Item No.
Graphite Liner Ferrule	each	211550

## Premium Septa

Varian Instrument	Septum Size
1177	9 mm
1040/41/60/61	3/8" (9.5 mm)
1075/77/78, 1079, 1093/94 SPI	11.5 mm

**BTO®** - Maximum temperature 400°C, low bleed

Description	Qty	Item No.
9 mm with CenterGuide™	50/pk	298713
9.5 mm	50/pk	298705
11.5 mm with CenterGuide	50/pk	298777



298777

**Advanced Green 3™** - Maximum temperature 350°C, low bleed

Description	Qty	Item No.
9 mm with CenterGuide	50/pk	246713
9.5 mm	50/pk	246124
11.5 mm with CenterGuide	50/pk	246725



246725

**Marathon™** - Maximum temperature 350°C, pierced septa resist coring

Description	Qty	Item No.
9 mm with CenterGuide	50/pk	239597
11.5 mm with CenterGuide	50/pk	239798



239798

# Product by GC Manufacturer

## For PerkinElmer Instruments



211205

### Ferrules - Graphite - Upper temp. 450°C

Packages of 10

Description		Item No.
<b>Reducing Ferrules</b>	<b>For Capillary Sizes - ID</b>	
1/8 in to 0.4 mm	0.25 mm	211204
1/8 in to 0.5 mm	0.32 mm	211205
1/8 in to 0.8 mm	0.53 mm	211208
1/8 in, two-hole, 0.5 mm each	0.32 mm	211222
	<b>For Capillary Sizes - OD</b>	
1/8 in to 1/16 in	1/16 in	211210



213105

### Ferrules - Vespel®/Graphite (60% Vespel/40% Graphite) - Upper temp. 400°C

Packages of 10

Description		Item No.
<b>Reducing Ferrules</b>	<b>For Capillary Sizes - ID</b>	
1/8 in to 0.4 mm	0.25 mm	213204
1/8 in to 0.5 mm	0.32 mm	213205
1/8 in to 0.8 mm	0.53 mm	213208
1/8 in, two-hole, 0.5 mm each	0.32 mm	213222
1/8 in, two-hole, 0.8 mm each	0.53 mm	213228
	<b>For Capillary Sizes - OD</b>	
1/8 in to 1/16 in	1/16 in	212210

### O-Ring

Graphite O-Ring for PerkinElmer Autosys XL or Clarus.

Description	Item No.
Graphite O-Ring	216637

## Premium Septa

PerkinElmer Instrument	Septum Size
Sigma Series, 900, 990, 8000 Series	11 mm
Auto SYS™, Auto SYS XL	11 mm

**BTO®** - Maximum temperature 400°C, low bleed

Description	Qty	Item No.
11 mm with CenterGuide™	50/pk	298717
11 mm with CenterGuide	100/pk	298718



**Advanced Green 3™** - Maximum temperature 350°C, low bleed

Description	Qty	Item No.
11 mm with CenterGuide	50/pk	246225
11 mm with CenterGuide	100/pk	246228



**Marathon™** - Maximum temperature 350°C, prepierced septa resist coring

Description	Qty	Item No.
11 mm with CenterGuide	50/pk	239297
11 mm with CenterGuide	100/pk	239888



# Product by GC Manufacturer

## For Shimadzu Instruments



211500

**Ferrules - Graphite** - Upper temp. 450°C  
Packages of 10

Style	Item No.
5 mm, Shimadzu 5 mm OD columns	211500



211174

Description	Item No.	
<b>Capillary Column Ferrules</b>	<b>For Capillary Sizes - ID</b>	
Shimadzu 17A, 2010, & 2014 GCs, 0.4 mm	0.25 mm and less	211174
Shimadzu 17A, 2010, & 2014 GCs, 0.5 mm	0.32 mm	211175
Shimadzu 17A, 2010, & 2014 GCs, 0.8 mm	0.53 mm	211178



216638

### Liner Seals; O-Ring

Graphite liner seals are designed for Shimadzu. Graphite O-Ring for Shimadzu 17A, 2010 and 2014 Splitless.

Description	Qty	Item No.
Graphite Liner Seal	10/pk	211195
Graphite O-Ring, Split	10/pk	216638
Graphite O-Ring, Splitless	10/pk	216639

## Premium Septa

Shimadzu Instrument	Septum Size
9A, 14, 15A, 16, 17A	Plug
2010, 2014	Plug

**BTO®** - Maximum temperature 400°C, low bleed

Description	Qty	Item No.
Plug Septa	50/pk	298735



298735

**Advanced Green 3™** - Maximum temperature 350°C, low bleed

Description	Qty	Item No.
Plug Septa	50/pk	246424



246424

**Marathon™** - Maximum temperature 350°C, prepierced septa resist coring

Description	Qty	Item No.
Plug Septa	50/pk	239498



239498



# Product by GC Manufacturer

## For Thermo Instruments



211905

**Ferrules - Graphite** - Upper temp. 450°C  
 Packages of 10



211983-10

Style	Item No.
<b>Thermo Instrument Ferrules - M8 Nut</b>	
0.5 mm ID	211905
0.8 mm ID	211908

**Cup Ferrules - M4 Nut**

Cup Ferrules - M4 Nut	For Capillary Sizes - ID	Item No.
0.28 mm ID	0.10 mm	211982-10
0.38 mm ID	0.25 mm	211983-10
0.48 mm ID	0.32 mm	211984-10
0.80 mm ID	0.53 mm	211988-10



216949

**Graphite Liner Seal** - Thermo Instruments Trace GC



216948

Description	Item No.
5 mm Graphite Seal, 2/pk	216949
8 mm Graphite Liner Seal, each	216948

## Premium Septa

Thermo Instrument	Septum Size
9001, GCQ	9 mm
Trace 1300 Series	11 mm
PTV Injector	1/2" (12.7 mm)
Fisons/Carlo Erba 8000 Series, Trace, Focus Split/Splitless	17 mm

**BTO<sup>®</sup>** - Maximum temperature 400°C\*, low bleed

Description	Qty	Item No.
9 mm with CenterGuide™	50/pk	298713
7/16" (11 mm) with CenterGuide	50/pk	298717
7/16" (11 mm) with CenterGuide	100/pk	298718
1/2" (12.7 mm) with CenterGuide	50/pk	298727
17 mm with CenterGuide*	50/pk	298817

\* For 17 mm injectors the maximum is 350°; for extended use 330°C.



298817

**Advanced Green 3™** - Maximum temperature 350°C\*, low bleed

Description	Qty	Item No.
9 mm with CenterGuide	50/pk	246713
7/16" (11 mm) with CenterGuide	50/pk	246225
7/16" (11 mm) with CenterGuide	100/pk	246228
1/2" (12.7 mm) with CenterGuide	50/pk	246325
17 mm with CenterGuide*	50/pk	246624

\* For 17 mm injectors the maximum is 300°C.



246624

**Marathon™** - Maximum temperature 350°C\*, prepierced septa resist coring

Description	Qty	Item No.
9 mm with CenterGuide	50/pk	239779
7/16" (11 mm) with CenterGuide	50/pk	239297
7/16" (11 mm) with CenterGuide	100/pk	239888
1/2" (12.7 mm) with CenterGuide	50/pk	239397
17 mm*	50/pk	239698

\* For 17 mm injectors the maximum is 300°C.



239698