

Premium Septa



CenterGuide™ Marathon™

Premium Septa are preconditioned and packed in glass. Premium Septa generally have much lower bleed than general-purpose septa.

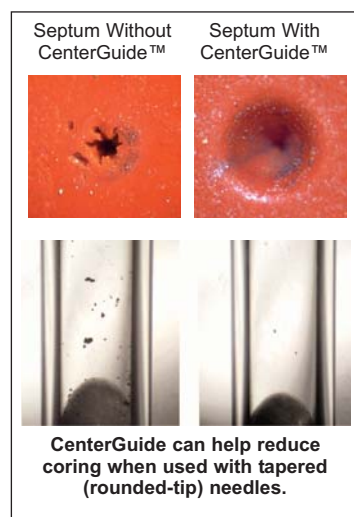
CenterGuide™ Septa for Improved Performance

- Center point guides the needle for easy penetration.
- Reduce needle bending.
- Precision molding assures accurate fit.
- Available in selected sizes of our premium septa.

CRS' precision-molded septa have a recess on the injection side, to guide the syringe needle to the same point with every injection. The CenterGuide™ design requires less force for initial penetration, for a smoother feel. Septum life may be enhanced in some applications by minimizing tearing and coring.

Septum	High Temperature	Long Life	Low Bleed	Suggested Applications
Marathon™	✓	✓	•	Autosampler use; extremely long lifetime, trace analysis
BTO®	✓	•	✓	High injection port temperature, lowest bleed, trace analysis
Advanced Green 3™	✓	•	•	General purpose use; low sticking

Upper Temperature Limit Septa BTO®, Marathon™ and Advanced Green 3™ can be used at 400°C and higher injector set point temperatures in most instruments. Slight sticking may occur in new injection ports when holding septa above 300°C over periods of many days.



Septum Cross Reference

Instrument	Septum Size, mm						
	5	9	9.5	11	11.5	12.7	17 Plug
Agilent / HP							
5880A, 5890, 6890, 6850				■			
5700, 5880			■				
On-column injection		■					
Purged packed column				■			
Fisons / Carlo Erba							
8000 series							■
PerkinElmer							
Sigma series				■			
8000 series				■			
AutoSystem / AutoSystem XL				■			
Clarus				■			
Shimadzu							
All							■
Thermo / ThermoFinnigan / ThermoQuest							
Trace, Focus Split / Splitless							■
9001, GCQ			■				
PTV injector						■	
Varian							
1177 injector		■					
1040 / 41 / 60 / 61			■				
1075 / 77 / 78 / 79					■		
1093 / 94 SPI					■		

Premium Septa

Septa BTO®

- Extended temperature range, low-bleed.
- Maximum temperature 400°C.
- Virtually eliminates injection-port sticking.
- Pre-conditioned; packaged in glass to prevent contamination.
- Each batch GC-FID tested.
- Ideal for use with low-bleed, "Mass Spec" capillary columns.

Septa BTO® is Bleed and Temperature Optimized for today's most demanding GC and GC/MS applications. Septa BTO® is formulated to extend low-bleed and outstanding mechanical properties of premium GC septa to the highest-temperature applications. It retains remarkable softness and pierceability at high temperatures, with extremely low bleed. Septa are 3mm thick, except Shimadzu-style plug septa, and are packaged in glass vials.

Description	Qty.	Item No.
5 mm BTO® CenterGuide™	50/pk	298787
1/4" (6.4 mm) BTO	50/pk	298755
9 mm BTO CenterGuide	50/pk	298713
3/8" (9.5 mm) BTO	50/pk	298705
10 mm BTO	50/pk	298745
7/16" (11 mm) BTO CenterGuide	50/pk	298717
7/16" (11 mm) BTO CenterGuide	100/pk	298718
11.5 mm BTO CenterGuide	50/pk	298777
1/2" (12.7 mm) BTO CenterGuide	50/pk	298727
17 mm BTO CenterGuide	50/pk	298817
Septa BTO for Shimadzu	50/pk	298735



298717



Advanced Green 3™

- True low-bleed, high temperature green septum.
- Maximum temperature 400°C*.

The CRS Advanced Green 3™ Septum was specifically created to combine significantly longer injection life, low bleed and low injection port adhesion. The result is a green septum you can use for all your critical analyses. Advanced Green 3 Septa are packaged in glass vials for high purity. Septa are 3 mm thick, except Shimadzu-style plug septa.

Description	Qty.	Item No.
5 mm AG3™ CenterGuide™	50/pk	246525
9 mm AG3 CenterGuide	50/pk	246713
3/8" (9.5 mm) AG3	50/pk	246124
7/16" (11 mm) AG3 CenterGuide	50/pk	246225
7/16" (11 mm) AG3 CenterGuide	100/pk	246228
11.5 mm AG3 CenterGuide	50/pk	246725
1/2" (12.7 mm) AG3 CenterGuide	50/pk	246325
17 mm AG3	50/pk	246624
AG3 for Shimadzu	50/pk	246424



246225



246424

Premium Septa

Marathon™ Septa - Excellent Performance with Long Injection Life

- Outstanding lifetime.
- Premium septum for autosamplers.
- CenterGuide™ Marathon are pre-pierced for extremely reliable performance.
- Up to 400 injections per septum.
- Maximum temperature setting 400°C.

The CRS Marathon™ septum typically achieves 400 injections without failure, when used with a rounded-tip (Agilent-style) needle and autosampler or needle guide. The CenterGuide™ versions of Marathon are pre-pierced to channel the needle through the same spot with each injection, which helps eliminate the common type of coring that occurs on the first injection. The Marathon septum is also ideal for standard manual-injection GC and GC/MS. Septa are 3mm thick, except Shimadzu-style plug septa. Septa are packaged in glass vials.



239698



239297

239488



Description	25/pk	50/pk	100/pk
5 mm Marathon™ CenterGuide™	239587	239597	
9 mm Marathon CenterGuide	239778	239779	
3/8" (9.5 mm) Marathon	239188	239198	
7/16" (11 mm) Marathon CenterGuide	239287	239297	239888
11.5 mm Marathon CenterGuide	239787	239798	
1/2" (12.7 mm) Marathon CenterGuide	239387	239397	
17 mm Marathon	239688	239698	
Marathon for Shimadzu	239488	239498	

General-Purpose Septa

Puresep T™

- The better PTFE- coated septum.
- Recommended maximum temperature is 225° C.

Silicone-based septum is faced on one side with a double layer of polyimide and PTFE. The polyimide adheres to both the silicone and PTFE, providing a better bond and enhanced durability. The outer PTFE coating assures maximum inertness and helps minimize bleed.

Description	Qty.	Item No.
1/4" (6.0 mm) Puresep T™	50/pk	230665
3/8" (9.5 mm) Puresep T	50/pk	230675
7/16" (11 mm) Puresep T	50/pk	230685
11.5mm Puresep T	50/pk	230697
1/2" (12.7 mm) Puresep T	50/pk	230695
13 mm Puresep T	50/pk	230698
Septum Sheet, 11.5" x 11.5" Puresep T	1/pk	230696



Puresep T™

Puresep P™

- Made from silicone rubber coated with a layer of high-temperature polyimide.
- 3 mm thickness.

The polyimide layer is stable to 400° C, however the recommended upper limit for the septum as a whole is 300° C, due to the characteristics of silicone.

Description	Qty.	Item No.
1/4" (6.0 mm) Puresep P™	50/pk	230630
3/8" (9.5 mm) Puresep P	50/pk	230640
7/16" (11 mm) Puresep P	50/pk	230650
11.5 mm Puresep P	50/pk	230670
1/2" (12.7 mm) Puresep P	50/pk	230660
13mm Puresep P	50/pk	230680
Septum Sheet, 11.5" x 11.5" Puresep P	1/pk	230656



Puresep P™

Ultrasep® R Septa

This is a good general-purpose septum. Ultrasep® R has a 45 - 55 durometer hardness rating and is easy to penetrate. The upper temperature limit is 350° C. They have a long injection lifetime at 300° C.

Description	Qty.	Item No.
3/8" (9.5 mm) Ultrasep® R	50/pk	236905
7/16" (11 mm) Ultrasep R	50/pk	236115
1/2" (12.7 mm) Ultrasep R	50/pk	236125



Ultrasep® R

General-Purpose Septa / Septa Sheets



Microsep® Septa F-138

Microsep® Septa F-138

This is a general-purpose septum recommended for low-temperature use. Microsep® Septa F-138 is made of a special silicone rubber formulation with a PTFE backing. It is pre-treated by washing in distilled water, then baking under vacuum at 200° C. Off-white color. The septa stabilize rapidly after installation to minimize septum bleed.

Description	Qty.	Item No.
1/4" (6.0 mm) Microsep® F-138	50/pk	220625
3/8" (9.5 mm) Microsep F-138	50/pk	220900
0.394" (10 mm) Microsep F-138	50/pk	220100
7/16" (11 mm) Microsep F-138	50/pk	220110
1/2" (12.7 mm) Microsep F-138	50/pk	220120



Microsep® Septa F-174

Microsep® Septa F-174

This is a medium-performance silicone septum faced on one side with a layer of TFE PTFE. Thickness is approximately 3 mm. They have lower bleed than the F-138 septa.

Description	Qty.	Item No.
3/8" (9.5 mm) Microsep® F-174	50/pk	230905
7/16" (11 mm) Microsep F-174	50/pk	230115
1/2" (12.7 mm) Microsep F-174	50/pk	230125



Economy Blue Septa

Economy Blue Septa

Our Blue Septa are designed for non-demanding, routine applications. They are easy to penetrate, with a durometer rating of 40–45. These septa can be used up to 200–250°C and are suitable for 90% of all GC analyses. Made from silicone.

Description	Qty.	Item No.
Economy Blue Septa		
1/4" (6.4 mm)	100/pk	234625
3/8" (9.5 mm)	100/pk	234905
7/16" (11 mm)	100/pk	234115
1/2" (12.7 mm)	100/pk	234125



960070

Microsep® F-145 Cylindrical Septa

These can be used with glass columns or any item with a standard cylindrical septum port, such as gas sampling bulbs. Microsep® F-138 with a PTFE facing is molded onto red silicone, for three-layer protection. Half-depth hole design. Dimensions are approximately 6 x 8 mm.

Description	Qty.	Item No.
Microsep® F-145 Cylindrical Septa, Half Hole		
Cylindrical Septa	12/pk	960070
Cylindrical Septa	50/pk	960270

Accessories

Septa Sheets

For those with special size requirements or special applications. Sheets are approximately 11.5" x 11.5" x 1/8" (3 mm).

Description	Qty.	Item No.
Economy Blue Septum Sheet	1/pk	234100
Ultrasep® R Septum Sheet	1/pk	236100
Puresep T™ Septum Sheet	1/pk	230696
Puresep P™ Septum Sheet	1/pk	230656



230696

Septum Needle Guide

Attaches to most conventional chromatograph inlets. The conical needle guide entrance is located about one inch away from the hot septum. It remains cool to the touch, eliminating premature flashing. It helps prevent bent needles when using harder septa. The Needle Guide also lengthens septum life. The Needle Guide fits into a 3/16" diameter hole in the septum cap; the cap can be drilled out if it has a narrower opening.

Description	Qty.	Item No.
Septum Needle Guide for 3/16" hole	2/pk	450050



450050

Injection Port Cleaning Kit

This is designed for cleaning all GC injection ports, including those in Shimadzu instruments. Included are three stainless steel brushes, 5 mm (for Shimadzu), 1/4" and 3/8", and one scraper for removing septum residue.

Description	Item No.
Injection Port Cleaning Kit	206211



206211

Septa Pick

The Septa Pick is useful for removing small pieces of septa lodged in the threads and corners of the septum cap or injection port. It can also be used to remove small bits of graphite ferrule from the cap and fittings of column connectors; other small cleaning jobs.

Description	Qty.	Item No.
Septa Pick	1/pk	205465



205465