

crs GC septa



Inert | Low bleed | Long lifetime

Quality injection port septa
for GC analysis

Trajan's CRS GC septa is founded on unique technologies the optimize the performance of the injection port. CRS GC septa ensures:

- Very high temperatures of operation.
- Exceedingly tight requirements for low emission of volatile and liquid components.
- Resistance to sticking.

Inert | Low bleed | Long lifetime



CRS GC septa

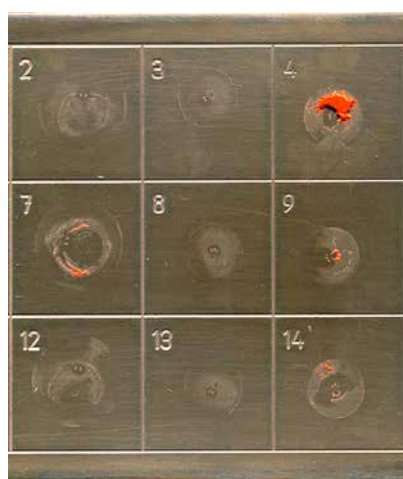
CRS GC septa are preconditioned for low bleed, plasma-coated to reduce sticking and are packed in blister packs and glass jars for high purity. We have developed unique technologies in the course of developing injection port septa for gas chromatographs. This particular application is characterized by very high temperatures of operation – to the limit of the material specification; Exceedingly tight requirements for low emission of volatile and liquid components, and a surface that needs to be resistant to sticking.



Injection port | GC septa

High temperature performance

Accelerated high-temperature tests show adhesion of silicone rubber formulations to a steel plate, with and without the non-stick coating. The difference in adhesion is readily apparent. In actual use this performance means easier septum removal and less injection port cleanup.



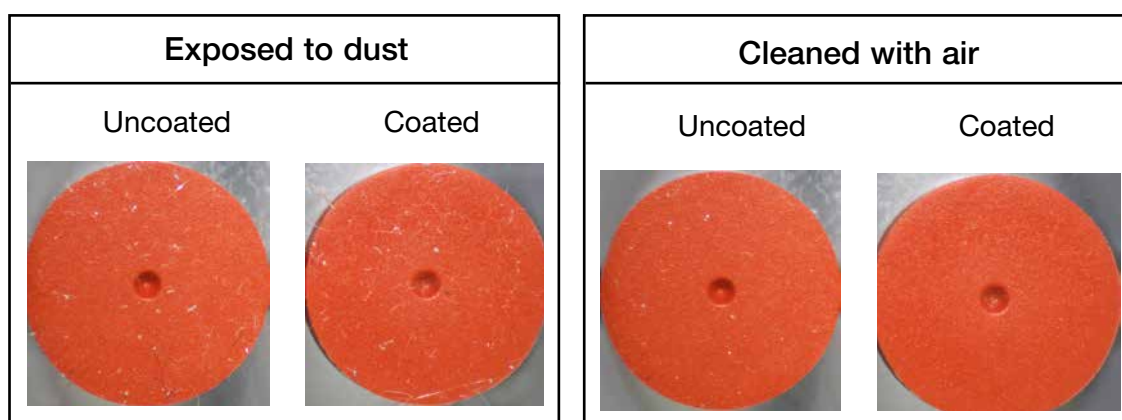
Uncoated



Coated

Plasma coating

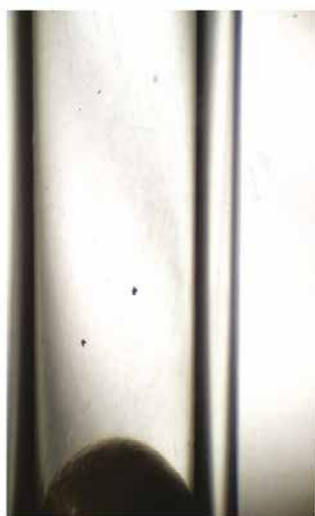
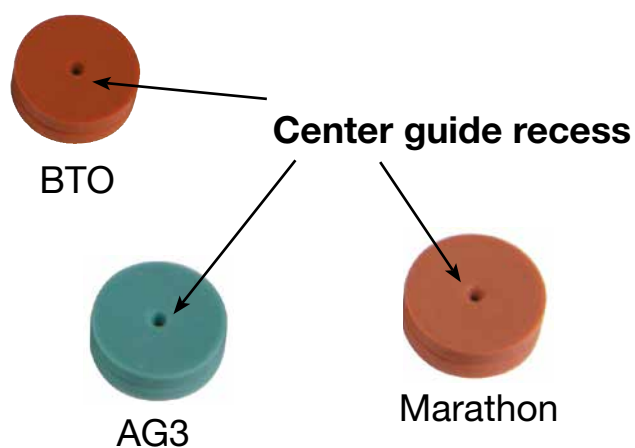
- Non-stick surface treatment.
- Easy to change even with high temperatures.
- Stays clean, does not attract dust.



Center guide and pre-pierced advantage

- Center point guides the needle for easy penetration.
- Reduces needle bending.
- Reduces coring and tearing.

CRS GC septa in BTO, AG3 and Marathon formulations are precision molded with a recess on the injection side, to guide the syringe needle to the same point with every injection. The center guide design requires less force on initial penetration for a smoother feel. Pre-pierced septa give long injection life for autosampling, reduce coring, and enhance reliable performance.



Center guide and
pre-pierced



Non-center guide and
non-pierced

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Injection port | GC septa

BTO premium high-temp GC septa

GC septa BTO is bleed and temperature optimized for the most demanding GC and GC-MS applications: it is the finest GC septum we have tested. GC 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, and has been optimized to reduce injection port adhesion.



AG3 low-bleed GC septa

The CRS Advanced Green 3 (AG3) GC septum was 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.



Marathon long-life GC septa

This is an advanced GC septum for autosampler use, with significantly longer life. The CRS Marathon GC septum typically achieves 400 injections without failure when used with a rounded-tip (HP-style) needle and autosampler or needle guide. Now you can make extended autosampler runs without fear of sample loss caused by blow-back of leaking carrier gas. The CRS Marathon GC septum is also ideal for standard manual injection GC and GC-MS.



General purpose blue GC septa

We offer general purpose blue GC septa that are economical and suitable for use in many applications. While they do not have the low-bleed quality or plasma coating of the premium GC septa they do hold up well at up to 275°C and provide lower bleed levels than many low-end or generic GC septa.



Puresep T GC septa

The CRS Puresep T GC septa are faced with polyimide film and have a double layer of polyimide and PTFE on one side. Puresep T GC septa are not low bleed septa, and their recommended maximum temperature is 225°C. Puresep T GC septa are stamped from sheets of material to the size specified. All general purpose septa are produced to tight tolerances in dedicated molds.



crs GC septa

Injection port | BTO premium high-temp

Part number	Part description and detail
Non-center guide	
0418999	6 mm (4 mm thick) OD BTO premium high-temp pre-drilled GC septa PK50
Center guide	
298787	5 mm OD BTO premium high-temp center guide GC septa PK50
041919	6.4 mm (1/4") OD BTO premium high-temp GC septa PK25
298755	6.4 mm (1/4") OD BTO premium high-temp GC septa PK50
041896	9 mm OD BTO premium high-temp center guide GC septa PK25
298713	9 mm OD BTO premium high-temp center guide GC septa PK50
041897	9.5 mm OD BTO premium high-temp GC septa PK25
298705	9.5 mm (3/8") OD BTO premium high-temp septa PK50
041918	10 mm OD BTO premium high-temp GC septa PK25
298745	10 mm OD BTO premium high-temp GC septa PK50
041898	11 mm OD BTO premium high-temp center guide GC septa PK25
298717	11 mm OD BTO premium high-temp center guide GC septa PK50
298718	11 mm OD BTO premium high-temp center guide GC septa PK100
041899	11.5 mm OD BTO premium high-temp center guide GC septa PK25
298777	11.5 mm OD BTO premium high-temp center guide GC septa PK50
0418992	12.7 mm OD BTO premium high-temp center guide GC septa PK24
298727	12.7 mm OD BTO premium high-temp center guide GC septa PK50
0418990	17 mm OD BTO premium high-temp center guide GC septa PK24
298817	17 mm OD BTO premium high-temp center guide GC septa PK50
298735	Shimadzu Plug BTO premium high-temp center guide GC septa PK50

For more information about this product visit www.trajanscimed.com or contact techsupport@trajanscimed.com

Injection port | AG3 low-bleed

Part number	Part description and detail
Non-center guide	
041916	6.4 mm (1/4") OD AG3 low-bleed GC septa PK25
041901	9.5 mm OD AG3 low-bleed GC septa PK25
246124	9.5 mm OD AG3 low-bleed GC septa PK50
Center guide	
041917	5 mm OD AG3 low-bleed center guide GC septa PK25
246525	5 mm OD AG3 low-bleed center guide GC septa PK50
246526	6 mm OD AG3 center guide GC septa PK50
246527	7 mm OD AG3 center guide GC septa PK50
246528	8 mm OD AG3 center guide GC septa PK50
041900	9 mm OD AG3 low-bleed center guide GC septa PK25
246713	9 mm OD AG3 low-bleed center guide GC septa PK50
246510	10 mm OD AG3 center guide GC septa PK50
041902	11 mm OD AG3 low-bleed center guide GC septa PK25
246225	11 mm OD AG3 low-bleed center guide GC septa PK50
246228	11 mm OD AG3 low-bleed center guide GC septa PK100
041904	11.5 mm OD AG3 low-bleed center guide GC septa PK25
246725	11.5 mm OD AG3 low-bleed center guide GC septa PK50
041906	12.7 mm (1/2") OD AG3 low-bleed center guide GC septa PK24
246325	12.7 mm (1/2") OD AG3 low-bleed center guide GC septa PK50
041903	17 mm OD AG3 low-bleed center guide GC septa PK24
246624	17 mm OD AG3 low-bleed center guide GC septa PK50
246424	Shimadzu Plug AG3 low-bleed center guide GC septa PK50

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Injection port | Marathon long-life

Part number	Part description and detail
041911	5 mm OD Marathon long-life center guide GC septa PK25
239597	5 mm OD Marathon long-life center guide GC septa PK50
041908	9 mm OD Marathon long-life center guide GC septa PK25
239779	9 mm OD Marathon long-life center guide GC septa PK50
041915	11 mm OD Marathon long-life center guide GC septa PK25
239297	11 mm OD Marathon long-life center guide GC septa PK50
239888	11 mm OD Marathon long-life center guide GC septa PK100
041907	11.5 mm OD Marathon long-life center guide GC septa PK25
239798	11.5 mm OD Marathon long-life center guide GC septa PK50
041914	12.7 mm (1/2") OD Marathon long-life center guide GC septa PK24
239397	12.7 mm (1/2") OD Marathon long-life center guide GC septa PK50
041910	17 mm OD Marathon long-life center guide GC septa PK24
239698	17 mm OD Marathon long-life center guide GC septa PK50
041913	Shimadzu plug Marathon long-life center guide GC septa PK25
239498	Shimadzu plug Marathon long-life center guide GC septa PK50

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Injection port | General purpose blue

Part number	Part description and detail
234106	5 mm OD General purpose blue GC septa PK50
234626	6.4 mm (1/4") OD General purpose blue GC septa PK50
234113	8 mm OD General purpose blue GC septa 8 mm PK50
234108	9 mm OD General purpose blue GC septa PK50
234906	9.5 mm (3/8") OD General purpose blue GC septa PK50
234111	10 mm OD General purpose blue GC septa PK50
234116	11 mm OD General purpose blue GC septa PK50
234216	11.5 mm OD General purpose blue GC septa PK50
234126	12.7 mm (1/2") OD General purpose blue GC septa PK50
234118	17 mm OD General purpose blue GC septa PK50
234121	Shimadzu plug General purpose blue GC septa PK50

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Injection port | Puresep T

Part number	Part description and detail
230665	6.4 mm (1/4") OD Puresep T coated GC septa PK50
230675	9.5 mm (3/8") OD Puresep T coated GC septa PK50
230685	11 mm OD Puresep T coated GC septa PK50
230697	11.5 mm OD Puresep T coated GC septa PK50
230695	12.7 mm (1/2") OD Puresep T coated GC septa PK50

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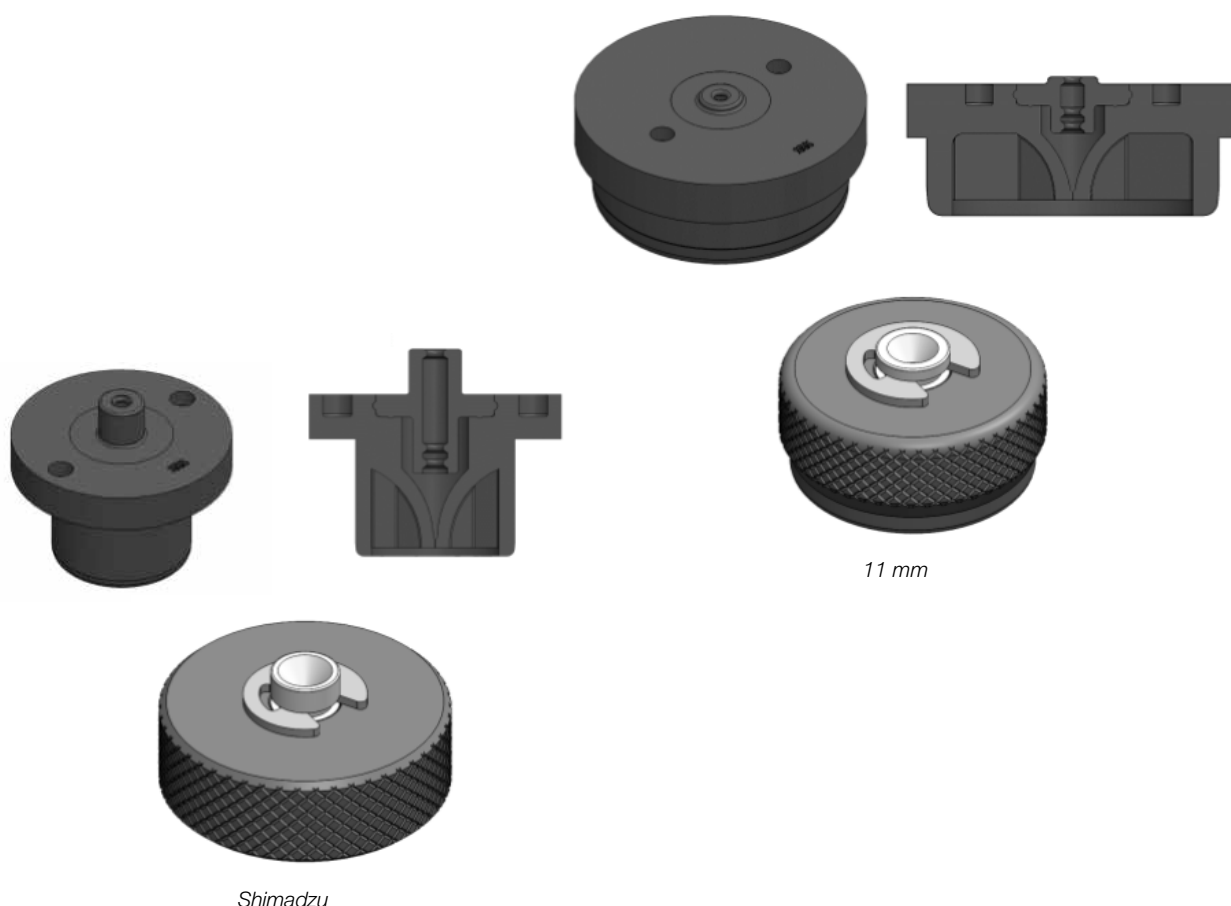
Injection port | GC septa

Endura-Seals GC Septa

Endura-Seals are a patented alternative to typical silicone-rubber injection port septa for gas chromatography. They work in a 2-part sealing system that includes the septa and the sealing nut.

The duckbill valve and wiper seal combination in the Endura-Seals is much more resistant to needle wear and tear than traditional pierced septa. While premium septa are already designed to reduce coring (particles in the liner), the Endura-Seals allow the needle to glide through the valve to virtually eliminate such particles. The Endura-Seals utilize a more cost-effective elastomeric spring design instead of the metal spring used in some competing designs. These features make the Endura-Seals GC septa an ideal choice for automated analyses in the long sequences used with today's high capacity autosamplers.

The Endura-Seals are available in 11 mm and Shimadzu style kits. Each kit includes 1 sealing nut and 2 septa. 11 mm Endura-Seals will fit in most instrument ports without the need for an adapter kit.



Injection port | Endura-Seals

Part number	Part description and detail
250111	11 mm OD Endura-Seals GC septa kit
250112	11 mm OD Endura-Seals replacement GC septa
250100	Shimadzu Endura-Seals GC septa kit
250101	Shimadzu Endura-Seals replacement GC septa

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Quality injection port septa for GC analysis.

Visit us at www.trajanscimed.com or contact your regional Trajan representative for assistance and further information.



Trajan Scientific and Medical

Science that benefits people

Trajan is actively engaged in developing and delivering solutions that have a positive impact on human wellbeing. Our vision revolves around collaborative partnerships that improve workflows, delivering better results.