



SGE GC Injection Port Septa

ROLE OF SEPTA

The role of septa in GC analysis is critical in order to produce consistent, high quality chromatography. Many chromatographic problems are caused as a result of inappropriate selection of septa material or handling of the septa. SGE understands this and brings technology and chromatography expertise to everything the sample touches, including septa.

Desired septum attributes

- Must reliably seal against the carrier gas pressure in the inlet.
- Must be 'Tear' resistant - durable and capable of being pierced by the syringe needle without pieces of the septa being deposited in the GC inlet system.
- Must be able to 'Re-seal' time after time.
- Must be solvent resistant.
- Must be able to withstand the highest temperature encountered in the injector without bleeding material into the chromatographic system.

Important notes for Septa use

- Do not use a septum above its max temperature as leaking and decomposition will result.
- Replace regularly to avoid leaks and decomposition which will lead to poor chromatography and reproducibility.
- Do not over-tighten when installing septa as this will promote coring.

SEPTA MATERIAL AND FABRICATION

SGE have a range of Septa material to suit various applications and sizes to fit the major GC instruments. Visit www.sge.com/septa for more information.



Premium Septa

- Precision-molded, ensuring an accurate fit.
- Marked with centre point guides.
- Packed in glass jars for high purity.

HT Septa properties and applications - Maximum Temperature 400 °C

Bleed and temperature optimized, combined with outstanding mechanical properties for the highest temperature applications. Retains softness and pierceability at high temperatures, and low injection port adhesion.



Diameter (mm)	Pack Size	Part Number
9	25	041896
9.5	25	041897
11	25	041898
11.5	25	041899
12.5	25	0418992
17	25	0418990
Shimadzu Plug	50	041895

EC Septa properties and applications - Maximum Temperature 400 °C

Combines significantly longer injection life, low bleed and low injection port adhesion.



Diameter (mm)	Pack Size	Part Number
9	25	041900
9.5	25	041901
11	25	041902
11.5	25	041904
12.5	25	041906
17	25	041903
Shimadzu Plug	50	041905

General Septa

- SGE septa are made with a high grade silicone material to minimize needle coring.
- Septa are pre-conditioned and hermetically seal in blister packs to prevent absorption from the environment.

Auto SepT™ Septa properties and applications - Maximum Temperature 350 °C

Use in temperature programmable injectors, high volume autosamplers



Diameter (mm)	Pack Size	Part Number
7	25	041878
9	25	041879
9.5	25, 100	041880, 041881
11	25, 100, 500	041882, 041883, 041887
12.5	25	041884
17	25	041886

Enduro Blue Septa properties and applications - Maximum Temperature 350 °C

Suitable for Shimadzu GCs only



Diameter (mm)	Pack Size	Part Number
Shimadzu Plug	50	041890

Auto Sep™ Septa properties and applications - Maximum Temperature 320 °C

High volume autosampler and manual use



Diameter (mm)	Pack Size	Part Number
9.5	25, 5	041871, 0418715
11	25	041872
7	25	041873
8	25, 5	041874, 0418745

TCS Septa properties and applications - Maximum Temperature 280 °C

Medium/ High temperature applications



Diameter (mm)	Pack Size	Part Number
6	50	041841
7	50, 10	041842, 0418421
8	50	041843
9	50	041844
9.5	50	0418440
10	50	041845
11	50	041846
11.5	50	041847
12.5	50	041848

CS Septa properties and applications - Maximum Temperature 200 °C

Low temperature applications



Diameter (mm)	Pack Size	Part Number
5	50	041820
6	50	041821
7	50	041822
8	50	041823
9	50	041824
9.5	50	0418240
10	50	041825
11	50	041826
11.5	50	041827
12.5	50	041828
15	50	041829

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