

BOTTLE, CAP & SEPTUM SAMPLING SYSTEM SUPPLIES

Sampling Systems are vital to chemical and hydrocarbon processes around the world. One of the other crucial items are the bottles, caps and septa which contain the liquid samples as they move from the processing units to the laboratory. At SENSOR Sampling Systems, we understand how important the quality and integrity of these components are, and we hold these critical elements to the highest manufacturing standards.

- SENSOR cap and septum material is punched in-house in order to perform well with the typical needle systems found in industrial closed-loop sampling.
- Laboratory supplied caps are punched with holes too small to accommodate industrial needle systems, and the septa material is too thin and easily damaged during use with industrial sampling systems.
- The resealability of septa material is carefully selected to balance damage to the septum and containment of the collected sample.

These components may be purchased separately or as a fully assembled set. Other sizes and materials are available to meet all your needs, *just ask!*

Caps

Caps come standard as polypropylene and are available in multiple sizes. Max temperature is 130°C (266°F).

Size	Hole	Bag Qty	Part #
20mm	.500"	100pcs	CAP20P
22mm	.586"	100pcs	CAP22P
24mm	.586"	100pcs	CAP24P
28mm	.625"	100pcs	CAP28P
33mm	.625"	100pcs	CAP33P
38mm	.750"	100pcs	CAP38P



Septa

Septa open cap liners are silicone with Teflon lamination that are available in multiple sizes. They provide high performance and low bleed. These septa are pigment-free and are made of top quality materials. PTFE (Polytetrafluoroethylene) film provides an excellent chemical barrier and the silicone has good resealability characteristics. Max temperature rating for this style is 200°C (392°F).

Size	Thickness	Bag Qty	Part #
20mm	100mil	100pcs	SEP20TS
22mm	100mil	100pcs	SEP22TS
24mm	100mil	100pcs	SEP24TS
28mm	100mil	100pcs	SEP28TS
33mm	100mil	100pcs	SEP33TS
38mm	100mil	100pcs	SEP38TS



Caps and Septa

Caps are made of polypropylene and septa open cap liners are silicone with Teflon lamination.

Size	Thickness	Bag Qty	Part #
20mm	100mil	100pcs	CPS20PTS
22mm	100mil	100pcs	CPS22PTS
24mm	100mil	100pcs	CPS24PTS
28mm	100mil	100pcs	CPS28PTS
33mm	100mil	100pcs	CPS33PTS
38mm	100mil	100pcs	CPS38PTS



Bottles with Cap and Septum

Bottles are available in clear, high-density polyethylene (HDPE) and clear borosilicate. Other materials and colors are available upon request.

Clear

Clear flint glass has superb corrosion resistance to most chemicals. The thickness of the glass allows it a slight mechanical shock resistance. Its thermal properties are medium with a 121°C (249°F) maximum temperature resistance and a 40°C (104°F) thermal shock resistance.

Volume	Cap Size	Septa Thickness	Case Qty	Part #
1oz/29.57ml	20mm	100mil	360pcs	BSC0120CTS
2oz/59.14	20mm	100mil	120pcs	BSC0220CTS
4oz/125ml	22mm	100mil	24pcs	BSC0422CTS
8oz/250ml	24mm	100mil	24pcs	BSC0824CTS
16oz/500ml	28mm	100mil	12pcs	BSC1628CTS
32oz/1000ml	33mm	100mil	12pcs	BSC3233CTS



HDPE

The most versatile and widely used plastic is polyethylene. It is translucent to opaque and very resistant to breaking and at the same time, being highly flexible. Polyethylene resists many chemicals at room temperature (strong oxidizing agents being the main exception). Plastic has a low maximum temperature resistance at 71°C (160°F).

Volume	Cap Size	Septa Thickness	Case Qty	Part #
4oz/125ml	24mm	100mil	24pcs	BSC0424PTS
8oz/250ml	28mm	100mil	24pcs	BSC0828PTS
16oz/500ml	28mm	100mil	12pcs	BSC1628PTS

Boro Clear

Clear borosilicate glass is resistant to water, neutral and acid solutions, concentrated acids and their mixtures, chlorine, bromine, iodine, and organic materials. This class is considered to be a well-rounded industrial glass in multiple applications where maximum thermal shock resistance is required. The temperature resistance gives a maximum temperature of 500°C (900°F).

Volume	Cap Size	Septa Thickness	Case Qty	Part #
4oz/125ml	33mm	100mil	24pcs	BSC0433BTS
8oz/250ml	33mm	100mil	24pcs	BSC0833BTS
16oz/500ml	33mm	100mil	12pcs	BSC1633BTS
32oz/1000ml	45mm	100mil	12pcs	BSC3245BTS



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