TEXAS SAMPLING, INCORPORATED

Bottles, Caps, and Septa

Superior materials and tighter manufacturing standards make TSI the logical choice.

Features

- TSI's bottles, caps, and septa are available separately or in combination. TSI's prepackaged cap-and-septum assemblies keep technicians from having to match caps and septa from different manufacturers, saving time and reducing room for error.
- Bottle and cylinder transport cases from TSI provide added safety.
- Customized shroud and sleeve assemblies are available on TSI's samplers to fit existing specialty bottles. Please supply a bottle sample when ordering.
- Local TSI Representative can provide local inventory and support.

Caps

- Caps are available in a wide variety of sizes and materials, including polypropylene, phenolic, and metal. The most popular septa are silicone laminated with Teflon, but other materials and configurations are also available.

Cap specs

Size	Finish	Fits bottle
20mm	20-400	1-oz./2-oz. BR
22mm	22-400	4-oz. BR; 20ml vial
24mm	24-410	8-oz. BR; 40ml vial
28mm	28-400	16-oz. BR
33mm	33-410	32-oz. BR/4-oz. FS

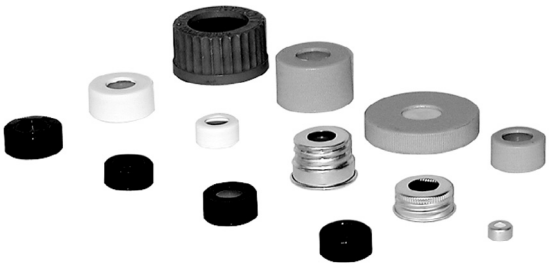
For size not listed please consult factory

Septa

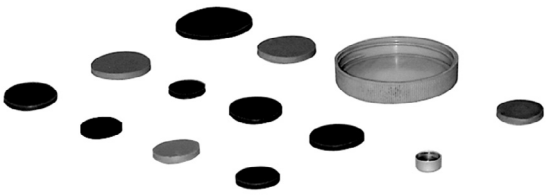
- Septa materials: silicone with Teflon lamination (90% of applications); Viton with Teflon lamination (benzene applications).
- TSI septa are available in two thicknesses: 100ml and 125ml.
- TSI's thicker septum ensures sample integrity and operator safety.

Texas Sampling's high-quality samplers are crucial to the refining process. Just as important are the bottles, caps, and septa which contain samples as they move from refinery to lab. Faulty materials and inferior manufacturing can compromise sample integrity and personnel safety.

Superior materials and tighter manufacturing standards make TSI's sampling accessories the logical choice for quality sampling and safety.



Caps shown with prefitted Septa



Septum examples

Bottle Specs

Material	Part No.	Volume	Bottle Dimensions			Cap size	Septum size	Temperature	
			Width	Bottle height	Cap diameter			Max	Shock
Amber glass	B001-20100A	01 oz.	1.21"	3.25"	0.884"	20mm	100ml	150°C	40°C
	B002-20100A	02 oz.	1.54"	3.82"	0.877"	20mm	100ml	150°C	40°C
	B004-22100A	04 oz.	1.91"	4.55"	0.983"	22mm	100ml	150°C	40°C
	B008-24125A	08 oz.	2.39"	5.63"	1.05"	24mm	120ml	150°C	40°C
	B016-28100A	16 oz.	2.93"	6.875"	1.20"	28mm	100ml	150°C	40°C
	B032-33125A	32 oz.	3.65"	8.25"	1.38"	33mm	100ml	150°C	40°C
Clear glass	B001-20100C	01 oz.	1.21"	3.25"	0.884"	20mm	100ml	150°C	40°C
	B002-20100C	02 oz.	1.54"	3.82"	0.877"	20mm	100ml	150°C	40°C
	B004-22100C	04 oz.	1.91"	4.55"	0.983"	22mm	100ml	150°C	40°C
	B008-24125C	08 oz.	2.39"	5.63"	1.05"	24mm	125ml	150°C	40°C
	B016-28100C	16 oz.	2.93"	6.875"	1.20"	28mm	100ml	150°C	40°C
	B032-33125C	32 oz.	3.65"	8.25"	1.38"	33mm	100ml	150°C	40°C
Vinyl-coated clear glass	B004-22100V	04 oz.	1.97"	4.58"	0.95"	22mm	100ml	130°C	40°C
	B008-24125V	08 oz.	2.49"	5.64"	1.05"	24mm	125ml	130°C	40°C
	B016-28100V	16 oz.	2.96"	6.875"	1.20"	28mm	100ml	130°C	40°C
	B032-33125V	32 oz.	3.71"	8.25"	1.38"	33mm	100ml	130°C	40°C
Clear glass	B004-33125Q	04 oz.	1.77"	4.58"	1.36"	33mm	125ml	150°C	40°C
Borosilicate	B125-33100B	125 ml.	2.15"	4.81"	1.39"	33mm	100ml	500°C	400°C
	B250-28125B	125 ml.	2.76"	5.80"	1.20"	28mm	100ml	500°C	400°C
Polyethylene (LDPE)	NSB002-20100PP	2 oz.	1.48"	3.67"	.983"	22mm	100ml	120°C	120°C
	B004-24125P	4 oz.	1.65"	4.90"	1.05"	24mm	125ml	120°C	120°C
	B008-28100E	8 oz.	2.19"	5.79"	1.20"	28mm	100ml	120°C	120°C
	B016-28100E	16 oz.	2.64"	7.25"	1.20"	28mm	100ml	120°C	120°C

Standard bottles: Boston Round (clear and amber; 1, 2, 4, 8, 16 and 32 oz.); Boston Round (vinyl coated; 4, 8, 16 and 32 oz.); polyethylene (20ml vial, 4, 8 and 16 oz.); French square (4 oz.); borosilicate (125 and 250ml)

Bottle Specs

- **Clear sodocalcic glass** has excellent corrosion resistance to most chemicals. Its thickness gives it a slight mechanical shock resistance. Its thermal properties are only medium, with a 150°C maximum temperature resistance and a 40°C thermal shock resistance.
- **Amber sodocalcic glass** has excellent corrosion resistance to most chemicals. Its thickness gives it a slight mechanical shock resistance. Its thermal properties are only medium, with a 150°C maximum temperature resistance and a 40°C thermal shock resistance. Amber bottles totally protect their contents from ultraviolet rays.

- **Clear borosilicate glass** highly resists water, neutral and acid solutions, concentrated acids and their mixtures, chlorine, bromine, iodine and organic materials. Its high thermal shock resistance (400°C) makes it an all-around industrial glass for applications that require this property.
- **Low-density polyethylene** is the most versatile and widely-used plastic. It is translucent to opaque and robust enough to be virtually unbreakable while maintaining slight flexibility. Polyethylene resists many chemicals at room temperature (strong oxidizing agents are the main exception). Plastic has a low maximum temperature resistance at 120°C.
- **Vinyl coatings** give glass bottles a safety feature to resist easy breakage. Even if the bottle does break, the protective coating maintains its integrity, containing both contents and glass fragments inside itself.

Sample Cylinder Assemblies also available

- **Steel (AISI SS-316) cylinders** with optional Teflon coating have the highest thermal and mechanical resistance and are unbreakable. Chemical resistance is high to very good for most chemicals. Other materials such as Monel, Hastelloy, and others are also available. Cylinders provided with 1800 psig rating, optional cylinder valves, and optional quick disconnects.

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