

CATALOG



EPA VOA VIALS

GLASSWARE

ULTRALAB™ PLASTICWARE

LAB GRADE PLASTICWARE

CHROMATOGRAPHY

HEADSPACE

CUSTOM-PRESERVED™

COLIFORM SAMPLING

FIELD SAMPLING

AIR SAMPLING

CAPS, LINERS, SEPTA

ACCESSORIES



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ABOUT QEC

Quality Environmental Containers

...isn't just our name, it's our promise. Making good on that promise is at the very heart of our growth and success since we shipped our first containers in 1994.

Our rigorous quality standards have helped us establish an unequalled reputation for excellence and reliability throughout the United States and around the world.

QEC's product line was designed in consultation with one of the nation's leading environmental laboratories specifically for the environmental industry. Our quality assurance program has been reviewed and checked at every step to ensure that all of our products meet the highest standards the industry demands.

Our attention to the details- such as leak and break resistant closures, bleed resistant label stock, non-volatile adhesives and pre-leached septa- make QEC products the industry standard for pre-cleaned sampling containers.



Every container shipped to you follows a strict quality assurance plan through each phase of cleaning, certification, packaging and shipping to arrive worry-free at your facility.

Customer service begins with first contact from one of our trained account professionals.

Working together with you, we determine what your precise needs are- from product specifications, pricing, transportation, or controlling inventory costs- and develop a detailed service plan to meet your unique needs.

Quality Assurance

QEC's quality assurance program begins with our commitment to quality products and customer service. QEC has developed an extensive QA/QC program designed to meet the needs of our customers, and to provide a consistently reliable quality product every time. If a question ever arises regarding any QEC product, the customer is assured of a prompt and thorough response from our Quality Assurance Manager within 24 hours.

Specifications

All QEC products and their components undergo strict evaluation and inspection before being released into production.

Pre-cleaned and Pre-cleaned Certified containers are specially prepared using a cleaning procedure that consistently results in containers that meet or exceed requirements in US EPA's "Specifications and Guidance for Contaminant-Free Sample Containers".



CLEANING LEVELS

Cleaning Levels & Certifications for Sampling Containers

QEC has more than 600 containers, accessories and supplies designed specifically for the environmental laboratory industry. QEC's standard glass and plastic sampling containers are available pre-cleaned to meet or exceed EPA standards, or assembled and ready for your cleaning procedures.

QEC glass and plastic containers are available with or without certificates of analysis:

QEC Level 3 Certified (Pre-cleaned w/ Certificate of Analysis)



These containers have been specially prepared in accordance with QEC's specifications for inspection, evaluation and applicable cleaning procedures. An independent laboratory analyzes Level 3 containers and a Certificate of Analysis is issued, certifying that the products meet or exceed the requirements of the US EPA's "Specifications and Guidance for Contaminant-Free Sample Containers". The Certificate has a specific production lot number and is included in every case. A bar code label is attached to each container, identifying the production lot number and the container's unique ID number. These numbers can be used to trace back to laboratory data. Each case is labeled with the production lot number, custody-sealed and shipped with labels and custody seals.

QEC Level 2 (Pre-cleaned to EPA standards)



These containers are processed using the same procedures as QEC Level 3 Certified products. Bar code labels and Certificates of Analysis are not provided. A Certificate of Quality Environmental Compliance (C-QEC) is issued, stating that the containers have been pre-cleaned to meet or exceed EPA requirements. The C-QEC has a production lot number and is included in every case. Each case is labeled with the production lot number and custody-sealed.

QEC Level 6:

Bulk-packaged Level 2 products, pre-cleaned to EPA standards

QEC Level 1 (Assembled and QA checked)



These containers have met QEC's strict specifications and are assembled and shipped without labels or custody seals.

QEC Level 5:

Bulk-packaged Level 1 products, assembled and QA checked



Washing & Preparations Procedures for Sampling Containers

QEC Level 2 and Level 3 glass and plastic containers are prepared using washing procedures required by the US EPA:

Wash/Prep Procedure EPA-A:

This procedure is designated by EPA regulations for clear and amber glass size 60 mL and larger. Level 2 and 3 containers prepared using this procedure are certified to meet or exceed EPA standards for metals, pesticides, and semi-volatiles. Level 3 containers are bar coded and issued a Certificate of Analysis.

Wash/Prep Procedure EPA-B:

Designated for 40 mL borosilicate glass vials and a some larger bottles. Level 2 and 3 containers prepared using this procedure are certified to meet or exceed EPA standards for volatiles. Level 3 containers are bar coded and issued a Certificate of Analysis.

Wash/Prep Procedure EPA-C:

This procedure is designated for HDPE sampling containers. Level 2 and 3 containers prepared using this procedure are certified to meet or exceed EPA standards for metals, cyanide, and fluoride. Level 3 containers are bar coded and issued a Certificate of Analysis.



BOTTLE DESCRIPTION: 20mL, 40 mL, 60mL Clear and Amber Borosilicate Glass Vial

QEC Level 3 VOA vials have been tested and found to comply with or to be lower than the EPA detection limits as stated "Specifications and Guidance for Contaminant-Free Sample Containers."

Compound	Quantitation Limit (µg/L)	Compound	Quantitation Limit (µg/L)
Chloromethane	<0.5	1,2,4-Trimethylbenzene	<0.5
Dichloromethane (methylene chloride)	<0.5	Isopropylbenzene	<0.5
Bromochloromethane	<0.5	n-Propylbenzene	<0.5
Bromodichloromethane	<0.5	Toluene	<0.2
Dibromochloromethane	<0.5	2-Chlorotoluene	<0.5
Bromomethane	<0.5	4-Chlorotoluene	<0.5
1,2-Dibromoethane (EDB)	<0.5	4-Isopropyltoluene (p-Isopropyltoluene)	<0.5
Chloroethane	<0.5	Naphthalene	<0.5
1,1-Dichloroethane	<0.5	Iodomethane	<1.0
1,2-Dichloroethane	<0.5	Dibromomethane	<0.5
1,1,1-Trichloroethane	<0.5	Dichlorodifluoromethane	<0.5
1,1,2-Trichloroethane	<0.5	Trichlorofluoromethane	<0.5
1,1,2,2-Tetrachloroethane	<0.5	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	<2.5
1,1,1,2-Tetrachloroethane	<0.5	Methyl Tert-Butyl Ether (MTBE)	<2.5
1,1-Dichloroethene	<0.5	Hexachlorobutadiene	<0.5
cis-1,2-Dichloroethene	<0.5	Ethyl tertiary butyl ether (ETBE)	<0.5
trans-1,2-Dichloroethene	<0.5	Tertiary amyl methyl ether (TAME)	<0.5
Trichloroethene	<0.5	Tertiary butyl alcohol (TBA) (tert-butanol)	<50.0
Tetrachloroethene	<0.5	Tertiary amyl alcohol (TAA)	<0.50
1,2-Dibromo-3-chloropropane (DBCP)	<0.5	Tertiary butyl formate	<20.0
1,2-Dichloropropane	<0.5	Isopropyl ether (IPE) Di-isopropylether	<2.5
2,2-Dichloropropane	<0.5	Vinyl Chloride	<0.5
1,3-Dichloropropane	<0.5	Acetone (2-propanone)	<2.5
1,2,3-Trichloropropane	<0.5	Vinyl Acetate	<0.5
3-Chloropropene (Allyl Chloride)	<1.0	Acrylonitrile	<2.5
1,1-Dichloropropene	<0.5	Carbon Disulfide	<0.5
Cis-1,3-Dichloropropene	<0.5	Carbon Tetrachloride	<0.5
trans-1,3-Dichloropropene	<0.5	Total Organic Carbon (TOC)	<600
Xylenes (total)	<1.5	Chloroform	<0.5
o-xylenes	<0.5	Bromoform	<0.5
m,p-xylenes	<1.0	4-Methyl-2-pentanone (MIBK)	<2.5
Benzene	<0.5	2-Hexanone	<2.5
Bromobenzene	<0.5	Styrene	<0.5
n-Butylbenzene (Butyl Benzene)	<0.5	Acetonitrile	<100
sec-Butylbenzene	<0.5	Acrolein	<2.5
tert-Butylbenzene	<0.5	2-Chloro-1,3-Butadiene (Chloroprene)	<2.5
Chlorobenzene	<0.5	Trans-1,4-Dichloro-2-Butene	<2.0
1,3-Dichlorobenzene	<0.5	Ethyl Cyanide (Propionitrile)	<10
1,4-Dichlorobenzene	<0.5	Ethyl Methacrylate	<5
1,2-Dichlorobenzene	<0.5	Isobutanol (Isobutyl Alcohol)	<100
1,2,3-Trichlorobenzene	<0.5	Methacrylonitrile	<5
1,2,4-Trichlorobenzene	<0.5	Methyl Methacrylate	<1.0
Ethylbenzene	<0.5	Methyl Ethyl Ketone (MEK) (2-butanone)	<2.5
1,3,5-Trimethylbenzene	<0.5	Ethanol	<100

VOA VIALS

open top VOA VIALS



VOA VIALS are most often used for volatile organic compound analysis. Available in clear 33 expansion and amber 51 expansion borosilicate glass. Open top vials come assembled with polypropylene caps with low-bleed 0.125" PTFE/silicone septa inserted (.135" septa for E-series vials). Sizes are 20mL, 40mL, and 60mL.

See *Cleaning Levels* on page 2.

Size	Cap	Color	Case	Septa	Level 1	Level 2	Level 3
60mL	24-414	Amber	72	.125"	1122-60ml	2122-60ml	3122-60ml
40mL	24-414	Amber	72	.125"	1122-40ml	2122-40ml	3122-40ml
20mL	24-414	Amber	72	.125"	1122-20ml	2122-20ml	3122-20ml
60mL	24-414	Clear	72	.125"	1112-60ml	2112-60ml	3112-60ml
40mL	24-414	Clear	72	.125"	1112-40ml	2112-40ml	3112-40ml
20mL	24-414	Clear	72	.125"	1112-20ml	2112-20ml	3112-20ml
40mL	24-414	Amber	72	.135"	1122-40mle	2122-40mle	3122-40mle
40mL	24-414	Clear	72	.135"	1112-40mle	2112-40mle	3112-40mle

Related Products: Open-top Caps with Septa
Open-top Caps, no Septa
PTFE/Silicone Septa only

closed top VOA VIALS



Closed top VOA vials come assembled with polypropylene caps, in sizes 20mL, 40mL and 60mL. Available in clear 33 expansion and amber 51 expansion borosilicate glass.

See *Cleaning Levels* on page 2.

Size	Cap	Color	Case	Level 1	Level 2
60mL	24-400	Amber	72	1122-60mLC	2122-60mLC
40mL	24-400	Amber	72	1122-40mLC	2122-40mLC
20mL	24-400	Amber	72	1122-20mLC	2122-20mLC
60mL	24-400	Clear	72	1112-60mLC	2112-60mLC
40mL	24-400	Clear	72	1112-40mLC	2112-40mLC
20mL	24-400	Clear	72	1112-20mLC	2112-20mLC

Related Products: Unlined Polypropylene Caps
PTFE Cap Liners

foam packed VOA VIALS



PREMIUM FOAM PACK - 40mL vials shipped in special packaging of eight 9-pack foam cubes for convenient handling and re-shipping.

See *Cleaning Levels* on page 2.

Size	Cap	Color	Case	Level 1	Level 2	Level 3
40mL	24-414	Amber	72	1122-40mLF	2122-40mLF	3122-40mLF
40mL	24-414	Clear	72	1112-40mLF	2112-40mLF	3112-40mLF

Related Products: Open-top VOA Vials
 Open-top Caps with Septa
 Open-top Caps, no Septa
 PTFE/Silicone Septa only

TOC VOA VIALS



HIGH PERFORMANCE TOTAL ORGANIC CARBON (TOC) vials are available specially cleaned to reduce instrument background and assure top quality system performance for your low level monitoring. Assembled with open top polypropylene cap with low-bleed .060" PTFE/silicone bonded septum.

See *Cleaning Levels* on page 2.

Size	Cap	Color	Case	Level 1	Level 2
40mL	24-414	Amber	72	1122-40mLT	2122-40mLT
40mL	24-414	Clear	72	1112-40mLT	2112-40mLT

Related Products: Open-top VOA Vials
 Open-top Caps with Septa
 Open-top Caps, no Septa
 PTFE/Silicone Septa only



PTFE open top VOA VIALS



40mL EPA VOA vials in clear 33 expansion or amber 51 expansion borosilicate glass, assembled with solid PTFE septa disc inserted in polypropylene cap.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Level 1	Level 2
40mL	24-414	Amber	72	1122-40MLTFE	2122-40MLTFE
40mL	24-414	Clear	72	1112-40MLTFE	2112-40MLTFE

Related Products: Open-top VOA Vials
Open-top Caps, no Septa
PTFE Cap Liners

chlorobutyl open top VOA VIALS



40mL EPA VOA vials in clear 33 expansion or amber 51 expansion borosilicate glass, assembled with 0.060" PTFE/chlorobutyl septa disc inserted in polypropylene cap.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Level 1	Level 2
40mL	24-414	Amber	72	1122-40MLB	2122-40MLB
40mL	24-414	Clear	72	1112-40MLB	2112-40MLB

Related Products: Open-top VOA Vials
Open-top Caps with Chlorobutyl Septa
Open-top Caps, no Septa
Chlorobutyl Septa only



VIALS

storage VIALS



Your choice of 4 mL or 7 mL clear borosilicate glass vials, assembled with Black Polypropylene cap with PTFE/foam liner. Vials are available in shrink-wrapped cartons, or for an additional charge can be packaged in 24-vial sturdy protective foam blocks.

Size	Cap	Color	Description	Pkg	Bulk	Level 1	Level 5
7mL	15-425	Clear	Borosilicate glass vials, with black polypropylene cap	24	200	1112-07ML	5112-07ML
4mL	13-425	Clear	Borosilicate glass vials, with black polypropylene cap	24	200	1112-04ML	5112-04ML

Related Products:

13-425 cap (fits 4mL storage vial)

15-425 cap (fits 7mL storage vial)

scintillation VIALS



SCINTILLATION VIALS from QEC are manufactured of low-potassium low-background borosilicate glass, with closely-controlled wall thickness. Uniform wall thickness is invaluable for reliable counting reproducibility.

Liquid scintillation counting (LSC) is the standard laboratory method to quantify the radioactivity of low energy radioisotopes, primarily beta-emitting and alpha-emitting isotopes. Sensitive LSC detection method requires specific chemical combinations to absorb energy into detectable light pulses.

Size	Cap	Color	Description	Pkg	Product No.
20 mL	22-400	Clear	Scintillation vial with foil-lined polypropylene cap	100	B112-20MLSC
20 mL	No cap	Clear	Scintillation vial, without cap	100	B112-20MLS
7 mL	15-425	Clear	Scintillation vial with foil-lined polypropylene cap	200	B112-07MLSC



GLASS



amber PACKERS

Wide mouth amber glass packers are recommended for use with semi-volatiles, pesticides and metals. All are shipped assembled with PTFE-lined polypropylene caps.

Note: 32 oz. "Level 3" packers are also tested and certified for volatiles, oil and grease analysis.

See *Cleaning Levels* on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
80oz/2500mL	70mm	Amber	4	N/A	1122-0080	2122-0080	3122-0080	Not Available	Not Available
40oz/1200mL	70mm	Amber	12	24	1122-0040	2122-0040	3122-0040	5122-0040	6122-0040
32oz/950mL	53mm	Amber	12	36	1122-0032	2122-0032	3122-0032	5122-0032	6122-0032
16oz/500mL	53mm	Amber	12	60	1122-0016	2122-0016	3122-0016	5122-0016	6122-0016
8oz/250mL	53mm	Amber	24	96	1122-0008	2122-0008	3122-0008	5122-0008	6122-0008
4oz/125mL	38mm	Amber	24	180	1122-0004	2122-0004	3122-0004	5122-0004	6122-0004
3oz/100mL	38mm	Amber	24	144	1122-0003	2122-0003	3122-0003	5122-03x6	6122-03x6
2oz/60mL	33mm	Amber	24	216	1122-0002	2122-0002	3122-0002	5122-0002	6122-0002

Related Products: Custom-Preserved™ Containers
Safety-Coated Glass
PTFE-Lined Caps
PTFE Liners

Amber Packers are also available in bulk quantities unassembled and ready to clean.
Caps and liners are sold separately.



GLASS



boston ROUNDS

QEC offers a wide assortment of narrow-mouth Boston Round glass containers in clear glass, as well as amber for UV sensitive samples. All are shipped assembled with PTFE-lined polypropylene caps. Excellent for water sampling.

Note: Level Three 32 oz. and 1.0L boston rounds are also tested and certified for volatiles, oil and grease analysis.

See *Cleaning Levels* on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
34oz/1000mL	33mm	Amber	12	N/A	1121-003312	2121-003312	3121-003312	Not Available	Not Available
34oz/1000mL	33mm	Amber	30	N/A	1121-0033	2121-0033	3121-0033	Not Available	Not Available
32oz/950mL	33mm	Amber	12	N/A	1121-003212	2121-003212	3121-003212	Not Available	Not Available
32oz/950mL	33mm	Amber	30	N/A	1121-0032	2121-0032	3121-0032	Not Available	Not Available
17oz/500mL*	38mm*	Amber	24	N/A	1121-0017	2121-0017	3121-0017	Not Available	Not Available
16oz/500mL	28mm	Amber	12	60	1121-0016	2121-0016	3121-0016	5121-0016	6121-0016
8oz/250mL	24mm	Amber	24	108	1121-0008	2121-0008	3121-0008	5121-0008	6121-0008
4oz/125mL	24mm	Amber	24	144	1121-0004	2121-0004	3121-0004	5121-0004	6121-0004
32oz/950mL	33mm	Clear	12	N/A	1111-003212	2111-003212	3111-003212	Not Available	Not Available
32oz/950mL	33mm	Clear	30	N/A	1111-0032	2111-0032	3111-0032	Not Available	Not Available
16oz/500mL	28mm	Clear	12	60	1111-0016	2111-0016	3111-0016	5111-0016	6111-0016
8oz/250mL	24mm	Clear	24	108	1111-0008	2111-0008	3111-0008	5111-0008	6111-0008
4oz/125mL	24mm	Clear	24	144	1111-0004	2111-0004	3111-0004	5111-0004	6111-0004

Related Products: Custom-Preserved™ Containers
Safety-Coated Glass

Boston Rounds are also available in bulk quantities unassembled and ready to clean. Caps and liners are sold separately.

* Wider 38-439 finish & closure that standard 500mL Boston Round. Popular choice for UCMR4 sampling.



800-255-3950 • qecusa.com • 304-255-3900

GLASS



septa BOTTLES & JARS

Septa Boston Rounds:

Narrow mouth bottles are preferred for sampling of liquids with low or absent solids content. QEC offers Boston Round septa bottles in 8 oz and 4 oz clear and amber, with other sizes available upon request. Use amber bottles for light-sensitive applications. Septa bottles have Polypropylene cap with PTFE/silicone septum inserted.

Septa Packers and Jars:

Wide mouth jars are the best choice for solids, semi-solids and hazardous waste samples. QEC's septa jars have an open-top polypropylene cap with bonded adhesive-free PTFE/silicone septum.

See *Cleaning Levels* on page 2.

Size	Cap	Color	Container	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
32oz/950mL	53mm	Amber	Packer	12	36	1122-S032	2122-S032	3122-S0032	5122-S0032	6122-S0032
16oz/500mL	53mm	Amber	Packer	12	60	1122-S016	2122-S016	3122-S016	5122-S016	6122-S016
8oz/250mL	53mm	Amber	Packer	24	96	1122-S008	2122-S008	3122-S008	5122-S008	6122-S008
8oz/250mL	24mm	Amber	Boston Round	24	108	1121-S008	2121-S008	3121-S008	5121-S008	6121-S008
8oz/250mL	24mm	Clear	Boston Round	24	108	1111-S008	2111-S008	3111-S008	5111-S008	6111-S008
4oz/125mL	24mm	Amber	Boston Round	24	144	1121-S004	2121-S004	3121-S004	5121-S004	6121-S004
8oz/250mL	58mm	Clear	Tall Jar	24	24	1117-S008	2117-S008	3117-S008	5117-S008	6117-S008
4oz/125mL	58mm	Amber	Short Jar	24	144	1124-S004	2124-S004	3124-S004	5124-S004	6124-S004
4oz/125mL	58mm	Clear	Short Jar	24	144	1114-S004	2114-S004	3114-S004	5114-S004	6114-S004
2oz/60mL	53mm	Clear	Short Jar	24	144	1114-S002	2114-S002	3114-S002	5114-S002	6114-S002

Related Products: Custom-Preserved™ Containers
Safety-Coated Glass



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GLASS



straight-side JARS

QEC's wide mouth straight-sided jars are excellent for sampling of soil, sediment and sludge. Level Three 4 oz. and 2 oz. jars are also tested and certified for volatiles. All are shipped assembled with PTFE-lined polypropylene caps.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
32oz/1000mL	89mm	Amber	12	36	1124-0032	2124-0032	3124-0032	5124-0032	6124-0032
9oz/250mL	70mm	Amber	24	96	1124-0009	2124-0009	3124-0009	5124-0009	6124-0009
4oz/125mL	58mm	Amber	24	144	1124-0004	2124-0004	3124-0004	5124-0004	6124-0004
32oz/1000mL	89mm	Clear	12	36	1114-0032	2114-0032	3114-0032	5114-0032	6114-0032
32oz/1000mL	70mm	Clear	12	36	1114-003270	2114-003270	3114-003270	5114-003270	6114-003270
16oz/500mL	89mm	Clear	12	36	1114-0016	2114-0016	3114-0016	5114-0016	6114-0016
9oz/250mL	70mm	Clear	24	96	1114-0009	2114-0009	3114-0009	5114-0009	6114-0009
4oz/125mL	58mm	Clear	24	144	1114-0004	2114-0004	3114-0004	5114-0004	6114-0004
2oz/60mL	53mm	Clear	24	144	1114-0002	2114-0002	3114-0002	5114-0002	6114-0002

Related Products: Custom-Preserved™ Containers
PTFE-Lined Caps
PTFE Cap Liners
Safety-Coated Glass

Straight-side Jars are also available in bulk quantities unassembled and ready to clean. Caps and liners are sold separately.

straight-side TALL JARS



QEC's wide mouth straight-sided tall jars are excellent for sampling of soil, sediment and sludge. Level Three 4 oz. and 2 oz. jars are also tested and certified for volatiles. All are shipped assembled with PTFE-lined polypropylene caps.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
8oz/250mL	58mm	Clear	24	24	1117-0008	2117-0008	3117-0008	5117-0008	6117-0008
4oz/125mL	48mm	Clear	24	144	1117-0004	2117-0004	3117-0004	5117-0004	6117-0004
2oz/60mL	38mm	Clear	24	288	1117-0002	2117-0002	3117-0002	5117-0002	6117-0002

Related Products: Custom-Preserved™ Containers
PTFE-Lined Caps
PTFE Cap Liners
Safety-Coated Glass

Straight-side Tall Jars are also available in bulk quantities unassembled and ready to clean. Caps and liners are sold separately.

standard JARS



QEC's standard wide mouth jars are well-suited for sampling for semi-volatiles, pesticides and metals. All are shipped assembled with PTFE-lined polypropylene caps. Standard jars are available certified upon request.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Level 1	Level 2
128oz/4000mL	89mm	Clear	4	1113-0128	2113-0128
64oz/2000mL	83mm	Clear	6	1113-0064	2113-0064
32oz/1000mL	70mm	Clear	12	1113-0032	2113-0032
16oz/500mL	63mm	Clear	12	1113-0016	2113-0016
8oz/250mL	58mm	Clear	24	1113-0008	2113-0008
4oz/125mL	48mm	Clear	24	1113-0004	2113-0004

Related Products: Custom-Preserved™ Containers
PTFE-Lined Caps
PTFE Cap Liners
Safety-Coated Glass

Standard Jars are also available in bulk quantities unassembled and ready to clean. Caps and liners are sold separately.



GLASS

french SQUARE



QEC's French square jars are well-suited for sampling for semi-volatiles, pesticides and metals. All are shipped assembled with PTFE-lined polypropylene caps. QEC's 32 oz French square container features graduated marks in milliliters and ounces. French square jars are available certified upon request.

See *Cleaning Levels* on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 5	Level 6
32oz/1000mL	58mm	Clear	12	24	1115-0032	2115-0032	5115-0032	6115-0032
16oz/500mL	48mm	Clear	12	40	1115-0016	2115-0016	5115-0016	6115-0016
8oz/250mL	43mm	Clear	24	84	1115-0008	2115-0008	5115-0008	6115-0008
4oz/125mL	33mm	Clear	24	120	1115-0004	2115-0004	5115-0004	6115-0004
2oz/60mL	28mm	Clear	48	240	1115-0002	2115-0002	5115-0002	6115-0002
1oz/30mL	24mm	Clear	48	280	1115-0001	2115-0001	5115-0001	6115-0001

Related Products: Custom-Preserved™ Containers

PTFE-Lined Caps

PTFE Cap Liners

Safety-Coated Glass

glass JUGS



Narrow mouth jugs are preferred for sampling of liquids with low solids content. Amber glass jugs protect light sensitive samples. Jugs are shipped assembled with polypropylene caps with PTFE liners.

See *Cleaning Levels* on page 2.

Size	Cap	Color	Case	Level 1	Level 2	Level 3
4.0 Liter	38-439	Amber	6	1121-0128	2121-0128	3121-0128
84oz/2.5 Liter	38-439	Amber	6	1121-0080	2121-0080	3121-0080
1 Gallon	38-400	Clear	4	1111-0128	2111-0128	3111-0128

Related Products: Custom-Preserved™ Containers

Safety-Coated Glass

Glass Jugs are also available in bulk quantities unassembled and ready to clean.

Caps and liners are sold separately.



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GLASS



safety-coated GLASSWARE

Upon your request, QEC will coat any of our glass products with a tough, non-reactive, soft plastic. Some advantages to consider:

- Bottles are slip-resistant for safety and less breakage of bottles (empty or full) in the lab or in transit.
- Quick clean up. Capped bottles with plastic coating contain the contents and glass shards long enough for proper disposal.
- Prevents or lessens spillage of possibly harmful materials in the event of breakage.
- Helps meet requirements for OSHA, DOT and UPS, among others.
- Better safety, reduces product liability.
- Full protection of glass against gas and product penetration, in a more breakage-resistant container.

Size	Cap	Color	Container	Case	Level 1	Level 2
4.0 Liter/4000mL	38-439	Amber	Glass Jug	6	1121-0128S	2121-0128S
80oz	70mm	Amber	Packer	6	1122-0080S	2122-0080S
32oz/950mL	33mm	Amber	Boston Round	30	1121-0032S	2121-0032S
1.0 Liter/1000mL	33-430	Amber	Boston Round	12	1121-003312S	2121-003312S
32oz/950mL	53mm	Amber	Packer	12	1122-0032S	2122-0032S
32oz	89mm	Clear	Straight-side jar	12	1114-0032S	2114-0032S

This table lists our more frequently-ordered safety-coated items. However, we can safety-coat any glass container in our stock at the preparation level you need.



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LEAK-PROOF PLASTICS



Precision-Sealing Containers



Q-Seal™ HDPE oblong leak-proof container and closure system combines dependable quality with economic efficiency. Ideal for applications wherever container security is critical.

- Container necks precision-engineered with 720-degree thread for leak-proof performance
- Leak-tight polypropylene closures with inner sealing ring
- Easy-to-read graduation marks in milliliters and ounces.
- Popular oblong shape for easier filling, pouring and storage.
- Sturdy HDPE construction for single-use economy without sacrificing container security.
- Available in three sizes: 250mL, 500mL, and 1000mL.



Size	Cap	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
34oz/1000mL	53mm	12	70	1212-Q034	2212-Q034	3212-Q034	5212-Q034	6212-Q034
16oz/500mL	43mm	24	150	1212-Q016	2212-Q016	3212-Q016	5212-Q016	6212-Q016
8oz/250mL	43mm	24	280	1212-Q008	2212-Q008	3212-Q008	5212-Q008	6212-Q008

Related Products: Custom-Preserved™ Containers



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LEAK-PROOF PLASTICS

UltraLab™

HDPE & Polypropylene Containers

These translucent rigid plastic containers are excellent for sampling sludge, soil, and water for metals.

Constructed from top-quality laboratory-grade resins, these containers undergo rigorous pre-manufacturing design inspections and testing.

The closure system is leakproof by design, molded to withstand excessive vibration and to eliminate closure back-off during shipping. QEC's UltraLab closures are molded of polypropylene for excellent chemical resistance.

See Chemical Resistance Chart

UltraLab™

hdpe WIDE MOUTH



Easy filling and pouring. Good for sampling and storing solid and semi-solid materials. These HDPE bottles with polypropylene closures are made of the highest quality premium-grade resins. Bottles 250ml (8oz) and larger have a recycling code molded into the base.

- Simple to pour, wide mouth bottles
- Chemically resistant
- Leak proof, firm

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
64oz/2000mL	65mm	Natural	6	28	1213-D064	2213-D064	3213-D064	5213-D064	6213-D064
32oz/1000mL	53mm	Natural	12	75	1213-U032	2213-U032	3213-U032	5213-U032	6213-U032
16oz/500mL	53mm	Natural	24	100	1213-U016	2213-U016	3213-U016	5213-U016	6213-U016
8oz/250mL	45mm	Natural	24	200	1213-U008	2213-U008	3213-U008	5213-U008	6213-U008
4oz/125mL	38mm	Natural	48	300	1213-U004	2213-U004	3213-U004	5213-U004	6213-U004

Related Products: Custom-Preserved™ Containers



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LEAK-PROOF PLASTICS

UltraLab™

hdpe NARROW MOUTH



Ideal for water, waste water, and other liquid samples. Good choice for storage of liquids or powders. Bottles 250mL (8oz) and larger have a recycling code molded into the base.

- Molded with rigid, high-density polyethylene
- Leakproof
- Good chemical resistance
- Matched closures made from polypropylene

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
32oz/1000mL	38mm	Amber	12	72	1221-U032	2221-U032	3221-U032	5221-U032	6221-U032
32oz/1000mL	38mm	Natural	12	75	1211-U032	2211-U032	3211-U032	5211-U032	6211-U032
16oz/500mL	28mm	Natural	24	100	1211-U016	2211-U016	3211-U016	5211-U016	6211-U016
8oz/250mL	28mm	Natural	24	200	1211-U008	2211-U008	3211-U008	5211-U008	6211-U008
4oz/125mL	28mm	Natural	48	300	1211-U004	2211-U004	3211-U004	5211-U004	6211-U004

Related Products: Custom-Preserved™ Containers

UltraLab™



polypropylene WIDE MOUTH

UltraLab™ Polypropylene wide mouth bottles are an excellent choice for packaging environmental and laboratory samples. Heavy threaded caps are designed to be torque-closed and will not loosen under vibration. Container walls are translucent so the volume of contents can be quickly determined.

Chemical and corrosion resistant ([Click to see Chart](#)), autoclavable 121°C (250°F). Remove caps before autoclaving.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 5	Level 6
16oz/500mL	53mm	Natural	24	125	1213-U016PP	2213-U016PP	5213-U016PP	6213-U016PP
8oz/125mL	45mm	Natural	24	250	1213-U008PP	2213-U008PP	5213-U008PP	6213-U008PP

Related Products: Custom-Preserved™ Containers



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LAB-GRADE PLASTICS

LAB-GRADE PLASTICWARE

QEC has a large assortment of Lab-Grade Quality Plasticware in a variety of forms for a wide range of uses, including the collection, transport and storage of liquid, solid and semi-solid materials. Browse these pages to find the plasticware that fits your needs. QEC plastics are shipped assembled with tough, reliable foam-lined polypropylene closures.

Polypropylene caps with foamed polyethylene liners have excellent sealing properties, with good chemical resistance to acids, alcohols, alkalis, aqueous products, oils and solvents.

See Chemical Resistance Chart.



oblong WIDE MOUTH HDPE

Rectangular shape makes better use of cooler space. Larger mouth allows for easier filling and pouring of liquid samples. Containers are prepared with polypropylene cap and foam-polyethylene liner included.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
34oz/1000mL	53mm	Natural	12	82	1212-0034	2212-0034	3212-0034	5212-0034	6212-0034
16oz/500mL	43mm	Natural	24	160	1212-0016	2212-0016	3212-0016	5212-0016	6212-0016
8oz/250mL	43mm	Natural	24	250	1212-0008	2212-0008	3212-0008	5212-0008	6212-0008
4oz/125mL	38mm	Natural	48	500	1212-0004	2212-0004	3212-0004	5212-0004	6212-0004
2oz/60mL	33mm	Natural	48	950	1212-0002	2212-0002	3212-0002	5212-0002	6212-0002

Related Products: Custom-Preserved™ Containers
Foam-Lined Caps

Oblong Wide Mouth HDPE are also available in bulk quantities unassembled and ready to clean. Caps and liners are sold separately.



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LAB-GRADE PLASTICS

round WIDE MOUTH HDPE



QEC Lab Grade HDPE (high-density polyethylene) Wide Mouth Round containers are well-suited for field sampling and laboratory use with solids, semi-solids, powders, and viscous liquids. These HDPE containers provide an excellent moisture barrier, are translucent, and are impact resistant. QEC wide mouth rounds are available in a range of sizes, from 2oz to 128oz in natural translucent, and 4oz to 32oz sizes in light-safe amber. HDPE wide mouth containers come assembled with polypropylene cap and foamed polyethylene liner.

Polypropylene caps with foamed polyethylene liners have excellent sealing properties, with good chemical resistance to acids, alcohols, alkalis, aqueous products, oils and solvents.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
32oz/1000mL	53mm	Amber	12	72	1223-0032	2223-0032	3223-0032	5223-0032	6223-0032
16oz/500mL	53mm	Amber	20	140	1223-0016	2223-0016	3223-0016	5223-0016	6223-0016
8oz/250mL	45mm	Amber	24	270	1223-0008	2223-0008	3223-0008	5223-0008	6223-0008
4oz/125mL	38mm	Amber	48	450	1223-0004	2223-0004	3223-0004	5223-0004	6223-0004
128oz/4000mL	110mm	Natural	4	48	1213-0128	2213-0128	3213-0128	5213-0128	6213-0128
77oz/2300mL	89mm	Natural	6	57	1213-0077	2213-0077	3213-0077	5213-0077	6213-0077
64oz/2000mL	89mm	Natural	6	76	1213-0064	2213-0064	3213-0064	5213-0064	6213-0064
32oz/1000mL	63mm	Natural	12	72	1213-0032	2213-0032	3213-0032	5213-0032	6213-0032
16oz/500mL	53mm	Natural	24	180	1213-0016	2213-0016	3213-0016	5213-0016	6213-0016
8oz/250mL	48mm	Natural	24	250	1213-0008	2213-0008	3213-0008	5213-0008	6213-0008
6oz/180mL	38mm	Natural	24	250	1213-0006	2213-0006	3213-0006	5213-0006	6213-0006
4oz/125mL	38mm	Natural	48	500	1213-0004	2213-0004	3213-0004	5213-0004	6213-0004
2oz/60mL	33mm	Natural	48	950	1213-0002	2213-0002	3213-0002	5213-0002	6213-0002

Related Products: Custom-Preserved™ Containers
Foam-Lined Caps

Round Wide Mouth HDPE are also available in bulk quantities unassembled and ready to clean. Caps and liners are sold separately.



LAB-GRADE PLASTICS

cylinder round NARROW MOUTH HDPE



QEC Lab Grade HDPE (high-density polyethylene) containers provide an excellent moisture barrier, are translucent, and are impact resistant. They provide an excellent moisture barrier. Ideal for pharmaceutical applications. Narrow mouth cylinders are the preferred choice for handling liquid samples in the lab. Shoulder style allows pouring small quantities without spilling. HDPE cylinders are the original EPA specified bottle for liquid sampling. Prepared containers are assembled with polypropylene cap and foamed polyethylene liner.

Polypropylene caps with foamed polyethylene liners have excellent sealing properties, with good chemical resistance to acids, alcohols, alkalis, aqueous products, oils and solvents.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
34oz/1000mL	28mm	Natural	12	77	1211-0033	2211-0033	3211-0033	5211-0033	6211-0033
16oz/500mL	28mm	Natural	24	180	1211-0016	2211-0016	3211-0016	5211-0016	6211-0016
8oz/250mL	24mm	Natural	24	336	1211-0008	2211-0008	3211-0008	5211-0008	6211-0008
4oz/125mL	20mm	Natural	48	480	1211-0004	2211-0004	3211-0004	5211-0004	6211-0004

Cylinder Round Narrow Mouth HDPE are also available in bulk quantities unassembled and ready to clean. Caps and liners are sold separately.

cylinder round WIDE MOUTH HDPE



QEC Cylinder Round Wide Mouth containers offer the benefits of the cylinder shape and HDPE properties along with the added advantage of a wider opening.

Polypropylene caps with foamed polyethylene liners have excellent sealing properties, with good chemical resistance to acids, alcohols, alkalis, aqueous products, oils and solvents.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 5	Level 6
32oz/1000mL	38mm	Natural	12	201	1211-003238	2211-003238	5211-003238	6211-003238
16oz/500mL	38mm	Natural	24	221	1211-001638	2211-001638	5211-001638	6211-001638
12oz/350mL	38mm	Natural	24	216	1211-001238	2211-001238	5211-001238	6211-001238
8oz/250mL	38mm	Natural	24	336	1211-000838	2211-000838	5211-000838	6211-000838

Cylinder Round Wide Mouth HDPE are also available in bulk quantities unassembled and ready to clean. Caps and liners are sold separately.



LAB-GRADE PLASTICS

modern round NARROW MOUTH HDPE



QEC HDPE Modern Round Bottles have recessed panels for label application. Natural HDPE (high-density polyethylene) is translucent and commonly used for the storage and packaging of liquids. The modern round bottle has a sloped shoulder, which allows for maximum fill capacity and easy pouring. Polypropylene caps with foamed polyethylene liners have excellent sealing properties, with good chemical resistance to acids, alcohols, alkalis, aqueous products, oils and solvents. Prepared containers come assembled with cap and liner.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
32oz/1000mL	28mm	Natural	12	68	1211-0032M	2211-0032M	3211-0032M	5211-0032M	6211-0032M
16oz/500mL	28mm	Natural	24	136	1211-0016M	2211-0016M	3211-0016M	5211-0016M	6211-0016M
8oz/250mL	28mm	Natural	24	268	1211-0008M	2211-0008M	3211-0008M	5211-0008M	6211-0008M
4oz/125mL	24mm	Natural	48	510	1211-0004M	2211-0004M	3211-0004M	5211-0004M	6211-0004M

Related Products: Custom-Preserved™ Containers
Foam-Lined Caps

straight-side PLASTIC JARS



QEC HDPE Straight Sided containers feature an extra wide opening and jar style to allow for easy insertion and recovery of contents. Polypropylene caps with foamed polyethylene liners have excellent sealing, with good chemical resistance to acids, alcohols, alkalis, aqueous products, oils and solvents. Prepared containers come assembled with cap and liner.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 3	Level 5	Level 6
32oz/1000mL	89mm	Natural	12	84	1214-0032	2214-0032	3214-0032	5214-0032	6214-0032
16oz/500mL	89mm	Natural	24	144	1214-0016	2214-0016	3214-0016	5214-0016	6214-0016
8oz/125mL	70mm	Natural	24	320	1214-0008	2214-0008	3214-0008	5214-0008	6214-0008

Related Products: Custom-Preserved™ Containers
Foam-Lined Caps

Modern Rounds and Straight-side HDPE jars are also available in bulk quantities unassembled and ready to clean. Caps and liners are sold separately.



LAB-GRADE PLASTICS

milk JUGS



QEC has Natural HDPE milk jugs (also known as “dairy” or “juice” jugs) available in 32 ounce, 64 ounce and 128 ounce capacities. These lightweight, inexpensive, general purpose jugs are widely used for sampling and storage. The HDPE material provides an excellent moisture barrier and are impact resistant.

Polypropylene caps with foamed polyethylene liners have excellent sealing properties, with good chemical resistance to acids, alcohols, alkalis, aqueous products, oils and solvents.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 5	Level 6
128oz/4000mL	38mm	Natural	4	48	121M-0128	221M-0128	521M-0128	621M-0128
64oz/2000mL	38mm	Natural	9	108	121M-0064	221M-0064	521M-0064	621M-0064
32oz/1000mL	38mm	Natural	12	108	121M-0032	221M-0032	521M-0032	621M-0032

HDPE Jugs are also available in bulk quantities unassembled and ready to clean. Caps and liners are sold separately.

round JUGS



QEC’s round jugs are ideal for storage, transport or sampling of large volumes of liquid. Round jugs feature a recessed panel for labeling and finger grip for easy handling. HDPE jugs provide an excellent moisture barrier and are impact resistant. Assembled containers include polypropylene cap.

Polypropylene caps with foamed polyethylene liners have excellent sealing properties, with good chemical resistance to acids, alcohols, alkalis, aqueous products, oils and solvents.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 5	Level 6
128oz/4000mL	38mm	Natural	4	48	121R-0128	221R-0128	521R-0128	621R-0128
64oz/2000mL	38mm	Natural	6	84	121R-0064	221R-0064	521R-0064	621R-0064

HDPE Jugs are also available in bulk quantities unassembled and ready to clean. Caps and liners are sold separately.



LAB-GRADE PLASTICS

square JUGS



QEC's 128 ounce HDPE Square Jugs feature a recessed panel for labeling and finger grip for easy handling. The space saving design makes them ideal for storage, shipping, or for the workbench. These HDPE jugs provide an excellent moisture barrier and are impact resistant. Assembled containers include polypropylene cap.

Polypropylene caps with foamed polyethylene liners have excellent sealing properties, with good chemical resistance to acids, alcohols, alkalis, aqueous products, oils and solvents.

Square HDPE Jugs are available in bulk quantities unassembled and ready to clean. Caps and liners are sold separately.

Size	Cap	Color	Case	Description	Product No.
128oz/4000mL	38mm	Natural	4	Assembled and QA checked	121S-0128
128oz/4000mL	38mm	Natural	4	Pre-cleaned to EPA standards	221S-0128
128oz/4000mL	38mm	Natural	48	Assembled and QA checked, bulk package	521S-0128
128oz/4000mL	38mm	Natural	48	Pre-cleaned to EPA standards, bulk package	621S-0128

polypropylene CONTAINERS



Natural Polypropylene containers are translucent and durable. Ideal for storing and collecting specimens and lab supplies. Wide neck and straight sides facilitate easy recovery of contents. Polypropylene offers greater tolerance to high temperatures than HDPE and better contact clarity.

QEC 4oz specimen cups are an all-purpose utilitarian container with many lab uses. Cups feature raised graduated fill markings and a polyethylene screw cap. Specimen cups are shipped with caps, unassembled.

Size	Cap	Color	Case	Description	Product No.
4oz/120mL	53mm	Natural	500	Polypropylene specimen cup with cap. Unassembled	B214-0004
4oz/120mL	58mm	Natural	324	Polypropylene wide mouth, pre-cleaned to EPA standards, bulk package	6214-0004PP
2oz/60mL	33mm	Natural	48	Polypropylene wide mouth, assembled and QA checked	1214-0002PP
2oz/60mL	33mm	Natural	420	Polypropylene wide mouth, assembled and QA checked, bulk package	5214-0002PP
2oz/60mL	33mm	Natural	48	Polypropylene wide mouth, pre-cleaned to EPA standards.	2214-0002PP
2oz/60mL	33mm	Natural	420	Polypropylene wide mouth, pre-cleaned to EPA standards, bulk package	6214-0002PP



LAB-GRADE PLASTICS

LDPE CUBITAINERS®



These LDPE (low density polyethylene) containers are collapsible, nesting for space-saving storage. Containers ship assembled with polypropylene cap and polyethylene liner.



Level 1 containers are not pre-cleaned and are available in bulk with caps included.

Dust cover boxes and carrying handles are available for all Cubitainer® sizes.

Size	Cap	Color	Case	Bulk	Description	Level 1	Level 5
640oz/20L	38mm	Natural	12	36	5 gallon LDPE Cubitainer®	1211-0640	5211-0640
320oz/10L	38mm	Natural	12	36	2.5 gallon LDPE Cubitainer®	1211-0320	5211-0320
128oz/4L	38mm	Natural	36	160	1 gallon LDPE Cubitainer®	1211-0128	5211-0128
32oz/1000mL	38mm	Natural	36	144	32oz LDPE Cubitainer®	1211-0032	5211-0032

PET BOTTLES



QEC PET containers feature glass-like clarity for easy sample identification and observation, and are stress & impact resistant. They have exceptional gas and moisture barrier properties and a good alcohol & solvent barrier. Ideal for oil analysis.

QEC's PET bottles feature heavyweight construction that can withstand the use of a vacuum pump and higher sampling temperatures.

See Cleaning Levels on page 2.

Size	Cap	Color	Case	Bulk	Level 1	Level 2	Level 5	Level 6
4oz/120mL	38mm	Clear	48	450	1213-0004PET	2213-0004PET	5213-0004PET	6213-0004PET
5oz/150mL	38mm	Clear	48	410	1213-0005PET	2213-0005PET	5213-0005PET	6213-0005PET



LAB-GRADE PLASTICS

juice BOTTLES



QEC's square HDPE bottles, commonly referred to as "juice bottles", are available in 8 oz, 16 oz, and 32 oz sizes. These bottles are sold in bulk quantities, unassembled, with 38mm ratcheted locking polypropylene caps.

These containers may also be ordered assembled with a 38-400 foam-lined polypropylene cap.

Please contact your QEC representative for details and availability.

Size	Case	Description	Product No.
8oz/250ml	500	8 oz juice bottle, unassembled	B21M-0008
16oz/500ml	400	16 oz juice bottle, unassembled	B21M-0016
32oz/1000ml	180	32 oz juice bottle, unassembled	B21M-0032T

locking CAPS



Locking caps fit QEC HDPE dairy jugs and juice bottles that have a ratcheted 38-400 finish. Caps are sturdy polypropylene with ribbed sides and an interior sealing ring, as well as the ratcheted locking ring.

Caps may be ordered by themselves or with jugs/bottles (unassembled). Available in seven colors.

Size	Description	Pkg	Product No.
38-400	Red polypropylene cap with locking ratchet	2,000	B038-400 RTE
38-400	Blue polypropylene cap with locking ratchet	2,000	B038-400 BTE
38-400	Green polypropylene cap with locking ratchet	2,000	B038-400 GTE
38-400	White polypropylene cap with locking ratchet	2,000	B038-400 WTE
38-400	Orange polypropylene cap with locking ratchet	2,000	B038-400 OTE
38-400	Yellow polypropylene cap with locking ratchet	2,000	B038-400 YTE
38-400	Brown polypropylene cap with locking ratchet	2,000	B038-400 BRTE



CUSTOM-PRESERVED



QEC custom
preservedTM

Custom-PreservedTM containers are a convenient and time-saving alternative to individual dosing of samples in the lab or in the field. QEC's Custom-PreservedTM containers are available in a variety of popular container forms, sizes, and reagent treatments. QEC's Custom-PreservedTM is truly custom: we will preserve any of our containers with whatever reagent you specify.

In addition to Custom-PreservedTM containers, QEC offers chemical preservatives in convenient borosilicate glass CPVialsTM, and polypropylene CPDroppersTM. Each provides easy dosing into the sampling container with the option to re-close. The contents of each CPVialTM and CPDropperTM are identified by color coded labels with the name of the preservative.

QEC's Custom-PreservedTM preservative labels and seals may also be ordered separately.

- Custom-PreservedTM Containers
- HCl VOA Vials
- Other Preserved Vials
- Preservatives
- Preservative Labels



CUSTOM-PRESERVED

custom-preserved™ CONTAINERS



Preserving containers in advance of use is a frequent and popular choice in the environmental sampling field. For more than 15 years QEC has provided this service with our Custom-Preserved™ containers to simplify field preservation.

Level 3 containers include a Certificate of Analysis for the container. QEC can provide a Certificate of Analysis for the reagent from the manufacturer upon request.

Custom-Preserved™ containers give the additional assurance that proper protocols have been followed, especially when collecting samples for a number of parameters.

QEC can Custom-Preserved™ virtually any container in our stock to meet your needs. Below is a list of our most frequently requested Custom-Preserved™ containers, organized by preservative. If what you need is not listed, contact QEC customer service. We can create a Custom-Preserved™ product to your specifications.

[Click Here for Custom-Made Barcodes from QEC.](#)

Container	Case	Application	Solution/Reagent	Product No.
500mL UltraLab HDPE	24	Cyanides	10N Sodium Hydroxide, 1mL	3213-B016/NAOH-10-3-24
250mL UltraLab HDPE	24	Cyanides	10N Sodium Hydroxide, 1mL	3213-B008/NAOH-10-1-24
1L UltraLab HDPE	12	Metals	1:1 Nitric Acid, 5mL	3213-B032/HNO3-1-5-12
500mL UltraLab HDPE	24	Metals	1:1 Nitric Acid, 1mL	3213-B016/HNO3-1-3-24
250mL UltraLab HDPE	24	Metals	1:1 Nitric Acid, 1mL	3213-B008/HNO3-1-1-24
125mL UltraLab HDPE	48	Metals	1:1 Nitric Acid, 1mL	3213-B004/HNO3-1-0.5-48
1L Amber Boston Round	12	Nitrate/Nitrite, COD, Oil/Grease/TPH	1:1 Sulfuric Acid, 5mL	3121-003312/H2SO4-1-5-12
1L Amber Packer	12	Nitrate/Nitrite, COD, Oil/Grease/TPH	1:1 Sulfuric Acid, 5mL	3122-0032/H2SO4-1-5-12
250mL Amber Packer	24	Nitrate/Nitrite, COD, Oil/Grease/TPH	1:1 Sulfuric Acid, 5mL	3122-0008/H2SO4-1-5-24
1L Amber Boston Round	12	Volatile organics	1:1 Hydrochloric Acid, 5mL	3121-003312/HCL-1-5-12
500mL Amber Packer	12	Volatile organics	1:1 Hydrochloric Acid, 3mL	3122-0016/HCL-1-3-12

CUSTOM-PRESERVED

HCL VOA VIALS



40mL VOA vials preserved with 1:1 Hydrochloric Acid (HCl) solution, for use in preserving samples containing volatile organic compounds.

QEC Vials are EPA-compliant Type 1 borosilicate glass in 33 expansion clear or 51 expansion amber, with open-top polypropylene caps fitted with low-bleed .125" PTFE/silicone septa.

Vials are prepared in a controlled environment to prevent volatile contamination. HCl in QEC vials is tested and certified to meet or exceed EPA requirements for low-level VOC analysis.

Vials are packaged 72 per case. Also available in convenient 9-vial foam-pak cubes, 8 cubes per case.

See Cleaning Levels on page 2.

Size	Color	Case	Description	Level 1	Level 2	Level 3
40mL	Amber	72	VOA vials with 0.5mL HCl solution	1122-40HCL	2122-40HCL	3122-40HCL
40mL	Clear	72	VOA vials with 0.5mL HCl solution	1112-40HCL	2112-40HCL	3112-40HCL
40mL	Amber	72	VOA vials with 0.25mL HCl solution	1122-40HCL-2	2122-40HCL-2	3122-40HCL-2
40mL	Clear	72	VOA vials with 0.25mL HCl solution	1112-40HCL-2	2112-40HCL-2	3112-40HCL-2
40mL	Amber	72	Foam-packed VOA vials w/ 0.5mL HCl	1122-40HCLF	2122-40HCLF	3122-40HCLF
40mL	Clear	72	Foam-packed VOA vials w/ 0.5mL HCl	1112-40HCLF	2112-40HCLF	3112-40HCLF
40mL	Amber	72	Foam-packed VOA vials w/ 0.25mL HCl	1122-40HCLF-2	2122-40HCLF-2	3122-40HCLF-2
40mL	Clear	72	Foam-packed VOA vials w/ 0.25mL HCl	1112-40HCLF-2	2112-40HCLF-2	3112-40HCLF-2

Related Products: Other Custom-Preserved™ Vials
(including Trip Blanks)



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CUSTOM-PRESERVED

custom-preserved™ VIALS



QEC offers 40mL VOA vials preserved for a number of applications. In this table are some frequently-requested Custom-Preserved™ vials:

- Trip Blanks
- Sodium Thiosulfate anhydrous
- Ascorbic Acid
- Maleic Acid & Ascorbic Acid

If you don't see the particular preservative you need here, contact QEC customer service. We can prepare virtually any container in our stock to your specifications.

Size	Color	Case	Description	Product No.
40mL	Amber	72	Preserved w/ 3mg Sodium Thiosulfate anhydrous	3122-40ML/SOTH-A-3-72
40mL	Clear	72	Preserved w/ 3mg Sodium Thiosulfate anhydrous	3112-40ML/SOTH-A-3-72
40mL	Amber	72	Preserved w/ 25mg Ascorbic Acid	3122-40ML/CPAA-A-25-72
40mL	Clear	72	Preserved w/ 25mg Ascorbic Acid	3112-40ML/CPAA-A-25-72
40mL	Amber	72	Preserved w/ 200mg Maleic Acid & 25mg Ascorbic Acid	3122-40ML/MA/AA-A-200-25
40mL	Clear	72	Preserved w/ 200mg Maleic Acid & 25mg Ascorbic Acid	3112-40ML/MA/AA-A-200-25
40mL	Amber	72	Trip Blank vials w/ Organic-free DI Water and Hydrochloric Acid	3122-40ML/TRIP-HCL-.25-72
40mL	Clear	72	Trip Blank vials w/ Organic-free DI Water and Hydrochloric Acid	3112-40ML/TRIP-HCL-.25-72



CUSTOM-PRESERVED

CP PRESERVATIVES



- Hydrochloric Acid
- Sulfuric Acid
- Nitric Acid
- Zinc Acetate
- Sodium Hydroxide
- Sodium Thiosulfate
- Monochloroacetic Acid Potassium Acetate Buffer
- Monochloroacetic Acid Sodium Thiosulfate Buffer

QEC Custom-Preserved™ preservatives are chemical solutions of various strengths and quantities for the preservation of environmental samples. Available in either droppers or vials, color coded and labeled for easy identification.

CPDroppers™ are 20mL squeezable LDPE bottles with a polypropylene dropper cap for dispensing the desired amount of preservative. Droppers are also available in a 4mL size.

CPVials™ are 7mL and 4mL clear Type 1 borosilicate glass vials with polypropylene cap with foam/PTFE liner.

CPVials™ are prepared with a pre-measured amount of solution/reagent to be added to the sample, eliminating the need to prepare the solution in the field.

If you do not see the amount and ratio of your choice of preservatives listed, QEC can have preservatives custom-mixed to your specifications. Each preservative is also offered with full QA/QC and written certification of purity.

All preservatives are shipped in compliance with 49CFR 173.4 (Small Quantities) with MSDS enclosed.

Custom-Preserved™ nitric acid preservatives can be prepared suitable for air transport, meeting USDOT requirements.



CUSTOM-PRESERVED

HCl hydrochloric acid

Stabilizes samples analyzed for organics.



Container	Case	Amount	Solution/Reagent	Product No.
CPDropper™	12	15mL	37% Concentrate HCl	121D-HCLC/15
	12	15mL	18% (1:1) Hydrochloric Acid	121D-1HCL/15
CPVial™	24	5mL	18% (1:1) Hydrochloric Acid	1112-7HCL/05
	144	5mL	18% (1:1) Hydrochloric Acid	5112-7HCL/05
	24	4mL	18% (1:1) Hydrochloric Acid	1112-7HCL/04
	144	4mL	18% (1:1) Hydrochloric Acid	5112-7HCL/04
	24	3mL	18% (1:1) Hydrochloric Acid	1112-4HCL/03
	144	3mL	18% (1:1) Hydrochloric Acid	5112-4HCL/03
	24	2mL	18% (1:1) Hydrochloric Acid	1112-4HCL/02
	144	2mL	18% (1:1) Hydrochloric Acid	5112-4HCL/02
	24	1mL	18% (1:1) Hydrochloric Acid	1112-4HCL/01
	144	1mL	18% (1:1) Hydrochloric Acid	5112-4HCL/01

H₂SO₄ sulfuric acid

Stabilizes samples analyzed for nitrate/nitrite, chemical oxygen demand, oil & grease/TPH, phenols/ammonia, nitrogen/TOC/TOX, phosphorus



Container	Case	Amount	Solution/Reagent	Product No.
CPDropper™	12	15mL	96% Concentrate Sulfuric Acid	121D-SAC/15
	12	15mL	48% (1:1) Sulfuric Acid	121D-SA/15
CPVial™	24	5mL	48% (1:1) Sulfuric Acid	1112-7SA/05
	144	5mL	48% (1:1) Sulfuric Acid	5112-7SA/05
	24	4mL	48% (1:1) Sulfuric Acid	1112-7SA/04
	144	4mL	48% (1:1) Sulfuric Acid	5112-7SA/04
	24	3mL	48% (1:1) Sulfuric Acid	1112-4SA/03
	144	3mL	48% (1:1) Sulfuric Acid	5112-4SA/03
	24	2mL	48% (1:1) Sulfuric Acid	1112-4SA/02
	144	2mL	48% (1:1) Sulfuric Acid	5112-4SA/02
	24	1mL	48% (1:1) Sulfuric Acid	1112-4SA/01
	144	1mL	48% (1:1) Sulfuric Acid	5112-4SA/01
	24	1mL	96% Concentrate Sulfuric Acid	1112-4SAC/01
	144	1mL	96% Concentrate Sulfuric Acid	5112-4SAC/01
	24	1mL	24% (1:3) Sulfuric Acid	1112-4SA3/01
	144	1mL	24% (1:3) Sulfuric Acid	5112-4SA3/01
	24	0.5mL	96% Concentrate Sulfuric Acid	1112-4SAC/0.5
	144	0.5mL	96% Concentrate Sulfuric Acid	5112-4SAC/0.5



CUSTOM-PRESERVED

HNO_3 nitric acid

Stabilizes samples analyzed for metals. QEC can prepare concentrations that meet US DOT requirements for air transport.



Container	Case	Amount	Solution/Reagent	Product No.
CPDropper™	12	15mL	70% Concentrate Nitric Acid	121D-NAC/15
	12	15mL	35% (1:1) Nitric Acid	121D-NA/15
	12	15mL	18% (1:3) Nitric Acid	121D-3NA/15
CPVial™	24	5mL	35% (1:1) Nitric Acid	1112-7NA/05
	144	5mL	35% (1:1) Nitric Acid	5112-7NA/05
	24	5mL	18% (1:3) Nitric Acid	1112-7NA3/05
	144	5mL	18% (1:3) Nitric Acid	5112-7NA3/05
	24	3mL	35% (1:1) Nitric Acid	1112-4NA/03
	144	3mL	35% (1:1) Nitric Acid	5112-4NA/03
	24	3mL	18% (1:3) Nitric Acid	1112-4NA3/03
	144	3mL	18% (1:3) Nitric Acid	5112-4NA3/03
	24	2mL	35% (1:1) Nitric Acid	1112-4NA/02
	144	2mL	35% (1:1) Nitric Acid	5112-4NA/02
	24	2mL	18% (1:3) Nitric Acid	1112-4NA3/02
	144	2mL	18% (1:3) Nitric Acid	5112-4NA3/02
	24	1mL	35% (1:1) Nitric Acid	1112-4NA/01
	144	1mL	35% (1:1) Nitric Acid	5112-4NA/01
	24	1mL	18% (1:3) Nitric Acid	1112-4NA3/01
	144	1mL	18% (1:3) Nitric Acid	5112-4NA3/01
	24	0.5mL	70% Concentrate Nitric Acid	1112-4NAC/0.5
	144	0.5mL	70% Concentrate Nitric Acid	5112-4NAC/0.5

$\text{Zn}(\text{O}_2\text{CCH}_3)_2$ zinc acetate

Stabilizes samples analyzed for sulfide.



Container	Case	Amount	Solution/Reagent	Product No.
CPDropper™	12	15mL	2 Parts 10N NaOH / 1 Part 2N Zinc Acetate	121D-SHZN/15
CPVial™	24	5mL	2 Parts 10N NaOH / 1 Part 2N Zinc Acetate	1112-7SHZN/05
	144	3mL	2 Parts 10N NaOH / 1 Part 2N Zinc Acetate	5112-7SHZN/03
	24	2mL	2 Parts 10N NaOH / 1 Part 2N Zinc Acetate	1112-4SHZN/02
	144	2mL	2 Parts 10N NaOH / 1 Part 2N Zinc Acetate	5112-4SHZN/02
	24	1mL	2 Parts 10N NaOH / 1 Part 2N Zinc Acetate	1112-4SHZN/01
	144	1mL	2 Parts 10N NaOH / 1 Part 2N Zinc Acetate	5112-4SHZN/01



CUSTOM-PRESERVED

NaOH sodium hydroxide

Stabilizes samples analyzed for cyanide.



Container	Case	Amount	Solution/Reagent	Product No.
CPDropper™	12	15mL	10N Sodium Hydroxide	121D-SH10/15
CPVial™	24	5mL	10N Sodium Hydroxide	1112-7SH10/05
	144	5mL	10N Sodium Hydroxide	5112-7SH10/05
	24	4mL	10N Sodium Hydroxide	1112-7SH10/04
	144	4mL	10N Sodium Hydroxide	5112-7SH10/04
	24	2mL	10N Sodium Hydroxide	1112-4SH10/02
	144	2mL	10N Sodium Hydroxide	5112-4SH10/02
	24	1mL	10N Sodium Hydroxide	1112-4SH10/01
	144	1mL	10N Sodium Hydroxide	5112-4SH10/01

Na₂S₂O₃ sodium thiosulfate

Removes residual chlorine from samples.



Container	Case	Amount	Solution/Reagent	Product No.
CPDropper™	12	15mL	0.1N Sodium Thiosulfate	121D-ST/0.1/15
CPVial™	24	3mL	0.1N Sodium Thiosulfate	1112-4ST/0.1/3
	144	3mL	0.1N Sodium Thiosulfate	5112-4ST/0.1/3
	24	2mL	0.1N Sodium Thiosulfate	1112-4ST/0.1/2
	144	2mL	0.1N Sodium Thiosulfate	5112-4ST/0.1/2
	24	1mL	0.1N Sodium Thiosulfate	1112-4ST/0.1/1
	144	1mL	0.1N Sodium Thiosulfate	5112-4ST/0.1/1
	24	0.5mL	0.1N Sodium Thiosulfate	1112-4ST/0.1/0.5
	144	0.5mL	0.1N Sodium Thiosulfate	5112-4ST/0.1/0.5

CUSTOM-PRESERVED

monochloroacetic acid potassium acetate buffer

Stabilizes samples analyzed for N-methylcarbamates.



Container	Case	Amount	Solution/Reagent	Product No.
CPDropper™	12	15mL	Monochloroacetic Acid Potassium Acetate Buffer	121D-MAPAB/15
CPVial™	24	5mL	Monochloroacetic Acid Potassium Acetate Buffer	1112-7MAPAB/05
	144	5mL	Monochloroacetic Acid Potassium Acetate Buffer	5112-7MAPAB/05
	24	2mL	Monochloroacetic Acid Potassium Acetate Buffer	1112-4MAPAB/02
	144	2mL	Monochloroacetic Acid Potassium Acetate Buffer	5112-4MAPAB/02
	24	1mL	Monochloroacetic Acid Potassium Acetate Buffer	1112-4MAPAB/01
	144	1mL	Monochloroacetic Acid Potassium Acetate Buffer	5112-4MAPAB/01

monochloroacetic acid sodium thiosulfate buffer

Stabilizes samples analyzed for N-methylcarbamates.



Container	Case	Amount	Solution/Reagent	Product No.
CPDropper™	12	15mL	Monochloroacetic Acid Sodium Thiosulfate Buffer	121D-MASTB/15
CPVial™	24	5mL	Monochloroacetic Acid Sodium Thiosulfate Buffer	1112-7MASTB/05
	144	5mL	Monochloroacetic Acid Sodium Thiosulfate Buffer	5112-7MASTB/05
	24	2mL	Monochloroacetic Acid Sodium Thiosulfate Buffer	1112-4MASTB/02
	144	2mL	Monochloroacetic Acid Sodium Thiosulfate Buffer	5112-4MASTB/02
	24	1mL	Monochloroacetic Acid Sodium Thiosulfate Buffer	1112-4MASTB/01
	144	1mL	Monochloroacetic Acid Sodium Thiosulfate Buffer	5112-4MASTB/01



CUSTOM-PRESERVED



short strip LABELS

Size	Description	Pkg	Preservative	Product No.
.75" x 2.5"	Short Strip	1,000	Nitric Acid	BL1003
.75" x 2.5"	Short Strip	1,000	Sulfuric Acid	BL1004
.75" x 2.5"	Short Strip	1,000	Hydrochloric Acid	BL1005
.75" x 2.5"	Short Strip	1,000	Zinc Acetate	BL1006
.75" x 2.5"	Short Strip	1,000	Sodium Hydroxide	BL1007



long strip LABELS

Size	Description	Pkg	Preservative	Product No.
.75" x 5.875"	Long Strip	1,000	Sulfuric Acid	BL1015
.75" x 5.875"	Long Strip	1,000	Hydrochloric Acid	BL1016
.75" x 5.875"	Long Strip	1,000	Sodium Hydroxide	BL1017
.75" x 5.875"	Long Strip	1,000	Nitric Acid	BL1018



circle LABELS

Size	Description	Pkg	Preservative	Product No.
1.5" diameter	Circle	1,000	Nitric Acid	BL1008
1.5" diameter	Circle	1,000	Sulfuric Acid	BL1009
1.5" diameter	Circle	1,000	Hydrochloric Acid	BL1010
1.5" diameter	Circle	1,000	Sodium Hydroxide	BL1011
1.5" diameter	Circle	1,000	Ascorbic Acid	BL1012
1.5" diameter	Circle	1,000	Sodium Thiosulfate	BL1013



COLIFORM SAMPLING

These sterile containers are used in testing for the presence of coliform, a microbiological contaminant in drinking water. QEC offers a variety of feature-rich sampling bottles, manufactured to the highest standards of precision and reliability.



screw cap STERILE BOTTLES

Size	Description	Pkg	Product No.
250 mL	Polyethylene w/ sodium thiosulfate tablet, 100mg	228	0250T-83PMICRO
250 mL	Polyethylene without tablet	228	0250T-83MICRO
150ml	Polystyrene w/ sodium thiosulfate tablet, 100mg	342	0150T-83PMICRO
150ml	Polystyrene without tablet	342	0150T-83MICRO
120ml	Polystyrene w/ sodium thiosulfate tablet, 100mg	200	0120T-83PMICRO
120ml	Polystyrene without tablet	200	0120T-83MICRO

150mL and 120mL Screw Cap Container:

- Optically clear non-fluorescent polystyrene plastic
- 38mm leak-proof screw cap
- Sterile until opened for use
- Meets EPA requirements for Bac-T sampling
- Available with or without one Sodium Thiosulfate tablet
- Paper tab tamper-evident seal

250mL Screw Cap Container:

- Tough HDPE plastic
- Sterile until opened for use
- Meets EPA requirements for Bac-T sampling
- Two Sodium Thiosulfate tablets included
- Fill lines at 100mL, 150mL and 200mL
- Paper tab tamper-evident seal

starplex® STERILE BOTTLES

Size	Description	Pkg	Product No.
120ml	Sterile sealed Water Testing Container with 10mg Sodium Thiosulfate tablet	300	0B1202-TS

120mL Starplex® Container:

- Clear polypropylene container
- Leak proof "o-ring" closure
- 100mL fill-line
- Tamper evident seal
- Non-fluorescing label
- 10mg Sodium Thiosulfate tablet
- Certificate of conformance

snap cap STERILE BOTTLES

Size	Description	Pkg	Product No.
120 mL	Container w/ tie & sodium thiosulfate tablet	200	0120T-83P
120 mL	Container w/ tie & no tablet	200	0120T-83

120mL Snap Cap Container:

- Sturdy polypropylene construction
- Pre-sterilized, disposable
- 100mL fill line ($\pm 2.5\%$) meets EPA requirements
- One inch headspace facilitates mixing and meets EPA tolerance requirements
- Available with or without 100mg Sodium Thiosulfate tablet
- Airtight lid & locking arrow assures sterility prior to opening
- Closure latch prevents accidental opening
- Custody tie assures sample integrity



FIELD SAMPLING

method 5035 FIELD SAMPLING PREPARATION KITS



Size	Description	Pkg	Product No.
16 pack	5035 High and Low Level sample preservation kit (sodium bisulfate / methanol)	1	0535-0001
6 Pack	5035 High and Low Level sample preservation kit (sodium bisulfate / methanol)	1	0535-0001A
16 Pack	5035 High and Low Level sample preservation kit (organic-free DI water / methanol)	1	0535-0001-DI
6 Pack	5035 High and Low Level sample preservation kit (organic-free DI water / methanol)	1	0535-0001-DIA

Method 5035 Field Sampling Preservation Kits:

High and Low Level Sampling Kit - Available in packs to cover 6 or 16 sample points.

- 1 Disposable Terra Core Sampler or EasyDraw® Syringe
- 1 Dry weight container with lid
- 2-40ml VOA vials with stir bar and 5mLs of Sodium Bisulfate solution (or organic-free water), with tare weight
- 1-40ml VOA vial with 5mLs of Methanol and tare weight
-

Custom kits are also available (such as 10mL methanol, empty vials, high-level only, etc.) Please contact QEC's customer service team with your special field preservation needs.



5035 Field Sampling Preservation Kits can be ordered with optional EasyDraw® Syringe and PowerStop Handle®.

FIELD SAMPLING

soil sampling EXTRACTION TOOLS

QEC offers a fine selection of transfer tools (disposable as well as reusable) for sampling soils in accordance with EPA SW-846 Method 5035, and many other methods:



Description	Pkg	Product No.
5 g Terra Core Sampler disposable soil sample extraction tool	100	0535-0003
10 g Terra Core Sampler disposable soil sample extraction tool	100	0535-0010
EasyDraw® Syringe disposable tool for 5, 10, or 13 g soil samples.	100	0535-0008
PowerStop Handle®: Use with EasyDraw® Syringe. Reusable.	1	0535-0009
5 g En Core® disposable sampling device	50	0535-0004
25 g En Core® disposable sampling device	50	0535-0005
En Core® T-Handle for Sampling with the En Core® Sampler.	1	0535-0006
En Core® Sampler Extrusion Tool for use with the En Core® Sampler.	1	0535-0007



Terra Core Sampler:
(5 g and 10 g) Disposable transfer tool for soil sampling as described in US EPA SW-846 Method 5035. The rugged all-in-one design eliminates the need for a separate handle.



EasyDraw® Syringe and PowerStop Handle®:
Use the disposable EasyDraw® tool with the reusable Power Stop Handle® for 5, 10, or 13 g soil samples.

[Click here for Easy Draw/PowerStop user guide.](#)



En Core® Sampler:
(5 g and 25 g capacity)
Collects, stores and delivers soil samples... all within one easy-to-use device. The airtight sealing cap prevents the loss of volatiles as the En Core® Sampler becomes its own self-contained package. Use with En Core® T-handle (0535-0006) and En Core® Extrusion Tool (0535-0007).



En Core® T-Handle:
Used in the field, along with the En Core® sampler, to take the soil sample. Attach either a 5 g or 25 g En Core® disposable sampler to this Standard T-Handle and push the sampler into the soil for a measured soil sample.



En Core® Extrusion Tool:
Used in the laboratory, to remove soil from the En Core® sampler. Attach either a 5 g or 25 g disposable En Core® sampler to the Extrusion Tool. Use the plunger to push the sample into the vial.



FIELD SAMPLING

method 5035 PRESERVED VOA VIALS



Stir Bars can be purchased separately.

QEC's Method 5035 preserved vials are 40mL Level 3 VOA vials (pre-cleaned to EPA standards, with Certificate of Analysis), with open-top caps and low-bleed 0.125" PTFE/silicone septa. Prepared with label and tamper-evident seal.

Sodium Bisulfate vials contain 5mL of a 20% solution of organic-free DI water and sodium bisulfate. Tare weighted with stir bars.

Methanol vials are available with 5mL or 10mL of purge and trap grade methanol. Tare weighted, available with or without stir bars.

DI Water vials contain 5mL of organic-free DI water. Tare weighted with stir bars.

These vials are also provided in our Method 5035 field preservation kits.

Size	Color	Case	Preservative	Stir Bar	Tare Wt	Product No.
40ml	Amber	72	5mL 20% solution Sodium Bisulfate	Yes	Yes	3122-40ml/CP5035-SB5ST
40ml	Clear	72	5mL 20% solution Sodium Bisulfate	Yes	Yes	3112-40ml/CP5035-SB5ST
40ml	Amber	72	5mL Organic-free DI water	Yes	Yes	3122-40ml/CP5035-DI5ST
40ml	Clear	72	5 mL Organic-free DI water	Yes	Yes	3112-40ml/CP5035-DI5ST
40ml	Amber	72	5mL purge and trap grade Methanol	Yes	Yes	3122-40ml/CP5035-M5T
40ml	Clear	72	5mL purge and trap grade Methanol	Yes	Yes	3112-40ml/CP5035-M5T
40ml	Amber	72	5mL purge and trap grade Methanol	No	Yes	3122-40ml/CP5035-M5T
40ml	Clear	72	5mL purge and trap grade Methanol	No	Yes	3112-40ml/CP5035-M5T
40ml	Amber	72	10mL purge and trap grade Methanol	No	Yes	3122-40ml/CP5035-M10T
40ml	Clear	72	10mL purge and trap grade Methanol	No	Yes	3112-40ml/CP5035-M10T
n/a	White	25	1/2" x 5/16" PTFE-coated octagonal Spinbars			15035-1008



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AIR SAMPLING

Air sampling bags are available in several materials, ready to ship with push-pull valves and labels. QEC can also custom-build air sampling bags to meet your needs. Call QEC customer service for ordering information and assistance. QEC normally stocks 1.0L and 2.0L sampling bag sizes, and can provide sizes up to 10 liter upon special order.

tedlar® AIR SAMPLING BAGS



Although for most applications ALTEF bags are an affordable, available alternative, QEC can provide Tedlar gas sampling bags for our customers upon request. QEC Tedlar® bags come with either a locking combo valve or a screw cap combo valve. Available in 1.0 liter and 2.0 liter sizes with one grommet.

Please contact QEC customer service for pricing and availability.

Size	Description	Pkg	Product No.
2.0L	Tedlar® bag with screw cap combo valve, labels included	10	0909S-TDB1
2.0L	Tedlar® bag with locking combo valve, labels included	10	0909-TDB1
1.0L	Tedlar® bag with screw cap combo valve, labels attached	10	0707SL-TDB1
1.0L	Tedlar® bag with screw cap combo valve, labels included	10	0707S-TDB1
1.0L	Tedlar® bag with locking combo valve, labels included	10	0707-TDB1

multi-foil AIR SAMPLING BAGS



Chemical composition of Multi-Layer Foil Bags. (Listed from outer to inner layers)

1. 60 gauge Nylon
2. Aluminum (Metallized)
3. Polyethylene
4. 0.0003" Aluminum Foil
5. 0.002" Polyethylene

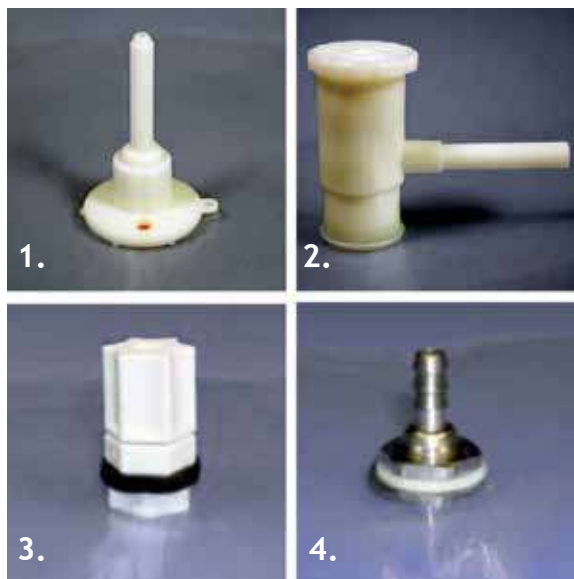
Multi-Layer Foil Bags are ideal for containing low molecular weight gases. The 2 layers of aluminum film provide a great barrier to gases permeating through the walls of the bag.

Size	Description	Pkg	Product No.
1.0L	Multi-foil sampling bag with screw cap combo valve	10	0707S-MFB1



AIR SAMPLING

air sampling bag AVAILABLE FITTINGS



QEC offers several types of air sampling bag fittings. See ALTEF, Multi-Layer Foil, and Tedlar® product pages for your options for assembled ready-to-ship bags. QEC can custom prepare any bag with any of the fittings shown here. Call QEC's customer service team for complete information:

1. **Polypropylene Locking® Combo Valve w/ Septum:** Standard on 1 liter ALTEF, Multi-Foil, and Tedlar® bags. Can be custom-prepared on 2 liter ALTEF and Tedlar® bags. Inert polypropylene. Fluoropolymer-faced septum with low bleed silicone rubber. Push/pull valve stem for quick (<1 second), easy opening/closing. Allows repeated puncture with syringe without leaking.
2. **Polypropylene Screw Valve w/ Replaceable Septum:** Standard on 2 liter ALTEF and Tedlar® bags. Can be custom-prepared for other bag materials and sizes. Lightweight, inexpensive. Inert Polypropylene with replaceable fluoropolymer-faced low-bleed septum. Allows reuse of valve by only replacing low-cost septum. Easy to use; easy to see if valve is open or closed. Ensures integrity of sample and prevents accidental sample loss.
3. **Plastic Jaco® Fitting for Tubing or Septum:** Available only for custom-prepared bags. Polypropylene molded construction with fluoropolymer-faced large-area septum. Superior grip, lower cost than metal fittings. Allows attachment of tubing or syringe sample extraction. Allows repeated syringe punctures. Reuse valve by replacing only septum.
4. **Nickel Plated Halkey® Roberts Barbed On/Off Valve:** Available only for custom-prepared bags. Nickel plating resists damage from the most aggressive chemicals. Barbed stem helps hold tubing in place. Leak resistant in closed position.

CAPS • LINERS • SEPTA

open top POLYPROPYLENE CAPS with SEPTA

Pre-assembled open top caps for VOA vials, available with low-bleed PTFE/silicone septa or chlorobutyl/PTFE septa inserted.



Size	Color	Description	Pkg	Septa	Product No.
24-414	White	Polypropylene open top cap	100	.125" PTFE/silicone	1M24-414WS
24-414	Yellow	Polypropylene open top cap	100	.125" PTFE/silicone	1M24-414YS
24-414	Red	Polypropylene open top cap	100	.125" PTFE/silicone	1M24-414RS
24-414	White	Polypropylene open top, bulk	500	.125" PTFE/silicone	5M24-414WS
24-414	Yellow	Polypropylene open top, bulk	500	.125" PTFE/silicone	5M24-414YS
24-414	Red	Polypropylene open top, bulk	500	.125" PTFE/silicone	5M24-414RS
24-414	White	Polypropylene open top cap	100	.135" PTFE/silicone	1M24-414WS-135
24-414	Yellow	Polypropylene open top cap	100	.135" PTFE/silicone	1M24-414YS-135
24-414	Red	Polypropylene open top cap	100	.135" PTFE/silicone	1M24-414RS-135
24-414	White	Polypropylene open top, bulk	500	.135" PTFE/silicone	5M24-414WS-135
24-414	Yellow	Polypropylene open top, bulk	500	.135" PTFE/silicone	5M24-414YS-135
24-414	Red	Polypropylene open top, bulk	500	.135" PTFE/silicone	5M24-414RS-135
24-414	White	Polypropylene open top cap	50	.125" PTFE/Chlorobutyl	1B24-414WS
24-414	Yellow	Polypropylene open top cap	50	.125" PTFE/Chlorobutyl	1B24-414YS
24-414	Red	Polypropylene open top cap	50	.125" PTFE/Chlorobutyl	1B24-414RS

24mm septa SILICONE and CHLOROBUTYL



Size	Cap	Description	Pkg	Product No.
0.125"	24mm	PTFE/Silicone to fit 24mm open top cap	100	1F3200-24mm
0.125"	24mm	PTFE/Silicone to fit 24mm open top cap, bulk packaged	1,000	5F3200-24mm
0.135"	24mm	PTFE/Silicone to fit 24mm open top cap	100	1F1520-24mm
0.135"	24mm	PTFE/Silicone to fit 24mm open top cap, bulk packaged	1,000	5F1520-24mm
0.125"	24mm	PTFE/Chlorobutyl to fit 24mm open top cap	100	1C1140-24mm
0.125"	24mm	PTFE/Chlorobutyl to fit 24mm open top cap, bulk packaged	1,000	5C1140-24mm

Low-Bleed PTFE/Silicone Septa: The PTFE provides a barrier for chemical resistance. The Silicone layer provides an analytically clean backing material that ensures a good seal with the surface of the vial and affords some degree of resealability when punctured. Silicone is also the best choice for high temperature work as it will perform up to about 200 C.

PTFE/Chlorobutyl Septa: Chlorobutyl (aka red rubber) Septa are an economical choice and the PTFE layer provides a good barrier from product contact. Chlorobutyl allows easier needle penetration, It is not recommended for multiple injections over time or for retention of samples for further analysis.



CAPS • LINERS • SEPTA

open top POLYPROPYLENE CAPS without SEPTA



Size	Color	Description	Pkg	Product No.
24-414	White	Polypropylene open top cap	100	1M24-414W
24-414	White	Polypropylene open top cap, bulk packaged	3,700	BM24-414W
24-414	Yellow	Polypropylene open top cap	100	1M24-414Y
24-414	Yellow	Polypropylene open top cap, bulk packaged	3,700	BM24-414Y
24-414	Red	Polypropylene open top cap	100	1M24-414R
24-414	Red	Polypropylene open top cap, bulk packaged	3,700	BM24-414R
24-414	Blue	Polypropylene open top cap	100	1M24-414B
24-414	Blue	Polypropylene open top cap, bulk packaged	3,700	BM24-414B

QEC's 24mm open-top replacement caps are made of rugged polypropylene for high impact strength, resistance to heat, good pliability. These caps are sold without septa. Available in white, yellow, blue and red.

bonded-liner POLYPROPYLENE CAPS



Size	Color	Description	Pkg	Product No.
58mm	White	Open top molded-hole cap w/ bonded 0.060" PTFE/silicone septa	25	1BT58-400WOT
53mm	White	Open top molded-hole cap w/ bonded 0.060" PTFE/silicone septa	25	1BT53-400WOT
24mm	Red	Open top molded-hole cap w/ bonded 0.060" PTFE/silicone septa	100	1BT24-414ROT
24mm	White	Closed top cap w/ bonded 0.060" PTFE/silicone liner	50	1BT24-400W
22mm	White	Closed top cap w/ bonded 0.060" PTFE/silicone liner	50	1BT22-400W
20mm	White	Closed top cap w/ bonded 0.060" PTFE/silicone liner	50	1BT20-400W

Polypropylene caps with bonded PTFE/silicone septa. Bonded liners assure that the liner will not be dislodged from the cap during use. PTFE/silicone is chemical resistant and has excellent resealing properties.

An ultrasonic welding process bonds liners to cap interiors, eliminating the risk of adhesive contamination and bond failure often associated with autoclaving or other high temperature or high stress operations. Film on the face of the liner imparts an inert, highly chemical resistant surface appropriate for the containment and storage of compounds such as volatile solvents and corrosive chemicals.



CAPS • LINERS • SEPTA

black POLYPROPYLENE CAPS



Size	Cap	Description	Pkg	Product No.
13mm	13-425	Black polypropylene cap with PTFE/foam liner	50	1T13-425BPP
15mm	15-425	Black polypropylene cap with PTFE/foam liner	50	1T15-425BPP
22mm	22-400	Black polypropylene cap with PTFE/foam liner	50	1T22-400BPP
24mm	24-400	Black polypropylene cap with PTFE/foam liner	50	1T24-400BPP
33mm	33-400	Black polypropylene cap with PTFE/foam liner	50	1T33-400BPP
38mm	38-400	Black polypropylene cap with PTFE/foam liner	50	1T38-400BPP

Polypropylene caps are recommended for good strength, thermal resistance, and pliability. Polypropylene caps are autoclavable. Foam backed PTFE liners resist attack from virtually all chemicals at room temperature and provides resilience for a tight seal with a low moisture transmission rate.

black phenolic CAPS



Phenolic caps are known for providing the widest range of chemical compatibility and for being the most temperature tolerant of plastic closures. The PE cone liner forms an exceptionally tight seal and provides a good chemical barrier.

Size	Description	Pkg	Product No.
38mm	38-400 cap with polyethylene cone liner	50	1C38-400B
38mm	38-400 cap with polyethylene cone liner, bulk pack	1,600	BC38-400B
33mm	33-400 cap with polyethylene cone liner	50	1C33-400B
33mm	33-400 cap with polyethylene cone liner, bulk pack	2,200	BC33-400B
28mm	28-400 cap with polyethylene cone liner	50	1C28-400B
28mm	28-400 cap with polyethylene cone liner, bulk pack	3,100	BC28-400B
24mm	24-400 cap with polyethylene cone liner	50	1C24-400B
24mm	24-400 cap with polyethylene cone liner, bulk pack	4,100	BC24-400B
22mm	22-400 cap with polyethylene cone liner	50	1C22-400B
22mm	22-400 cap with polyethylene cone liner, bulk pack	5,000	BC22-400B
20mm	20-400 cap with polyethylene cone liner	50	1C20-400B
20mm	20-400 cap with polyethylene cone liner, bulk pack	6,500	BC20-400B
18mm	18-400 cap with polyethylene cone liner	50	1C18-400B
18mm	18-400 cap with polyethylene cone liner, bulk pack	7,400	BC18-400B
15mm	15-425 cap with polyethylene cone liner	50	1C15-425B
15mm	15-425 cap with polyethylene cone liner, bulk pack	11,600	BC15-425B
13mm	13-425 cap with polyethylene cone liner	50	1C13-425B
13mm	13-425 cap with polyethylene cone liner, bulk pack	16,600	BC13-425B



CAPS • LINERS • SEPTA

PTFE-lined POLYPROPYLENE CAPS



QEC's PTFE-lined caps provide the widest range of chemical compatibility with the best temperature tolerance. PTFE liners resist degradation from virtually all chemicals at room temperature, are resilient for a tight seal with low moisture transmission.

QEC uses only EPA-compliant 0.015" thick PTFE liners.

Size	Color	Case	Bulk	Description	Level 1	Level 5
22mm	White	50	2000	22-400 polypro cap w/ .015" PTFE liner	1T22-400W	5T22-400W
24mm	White	50	2000	24-400 polypro cap w/ .015" PTFE liner	1T24-400W	5T24-400W
28mm	White	50	2000	28-400 polypro cap w/ .015" PTFE liner	1T28-400W	5T28-400W
33mm	Yellow	50	2000	33-400 polypro cap w/ .015" PTFE liner	1T33-400Y	5T33-400Y
33mm	White	50	2000	33-400 polypro cap w/ .015" PTFE liner	1T33-400W	5T33-400W
33mm	Red	50	2000	33-400 polypro cap w/ .015" PTFE liner	1T33-400R	5T33-400R
33mm	Black	50	2000	33-430 polypro cap w/ .015" PTFE liner	1T33-430B	5T33-430B
33mm	White	50	2000	33-430 polypro cap w/ .015" PTFE liner	1T33-430W	5T33-430W
38mm	Black	50	2000	38-430 polypro cap w/ .015" PTFE liner	1T38-430B	5T38-430B
38mm	Black	50	2000	38-439 polypro cap w/ .015" PTFE liner	1T38-439B	5T38-439B
38mm	Black	50	2000	38-400 polypro cap w/ .015" PTFE liner	1T38-400B	5T38-400B
38mm	White	50	2000	38-400 polypro cap w/ .015" PTFE liner	1T38-400W	5T38-400W
43mm	White	50	2000	43-400 polypro cap w/ .015" PTFE liner	1T43-400W	5T43-400W
45mm	White	50	2000	45-400 polypro cap w/ .015" PTFE liner	1T45-400W	5T45-400W
48mm	White	50	2000	48-400 polypro cap w/ .015" PTFE liner	1T48-400W	5T48-400W
53mm	White	50	2000	53-400 polypro cap w/ .015" PTFE liner	1T53-400W	5T53-400W
53mm	Yellow	50	2000	53-400 polypro cap w/ .015" PTFE liner	1T53-400Y	5T53-400Y
53mm	Red	50	2000	53-400 polypro cap w/ .015" PTFE liner	1T53-400R	5T53-400R
58mm	White	50	1650	58-400 polypro cap w/ .015" PTFE liner	1T58-400W	5T58-400W
58mm	Yellow	50	1650	58-400 polypro cap w/ .015" PTFE liner	1T58-400Y	5T58-400Y
58mm	Red	50	1650	58-400 polypro cap w/ .015" PTFE liner	1T58-400R	5T58-400R
63mm	White	50	1500	63-400 polypro cap w/ .015" PTFE liner	1T63-400W	5T63-400W
70mm	Red	50	1000	70-400 polypro cap w/ .015" PTFE liner	1T70-400R	5T70-400R
70mm	Yellow	50	1000	70-400 polypro cap w/ .015" PTFE liner	1T70-400Y	5T70-400Y
70mm	White	50	1000	70-450 polypro cap w/ .015" PTFE liner	1T70-450W	5T70-450W
70mm	White	50	700	70-400 polypro cap w/ .015" PTFE liner	1T70-400W	5T70-400W
83mm	White	50	550	83-400 polypro cap w/ .015" PTFE liner	1T83-400W	5T83-400W
89mm	Red	50	450	89-400 polypro cap w/ .015" PTFE liner	1T89-400R	5T89-400R
89mm	Yellow	50	450	89-400 polypro cap w/ .015" PTFE liner	1T89-400Y	5T89-400Y
89mm	White	50	450	89-400 polypro cap w/ .015" PTFE liner	1T89-400W	5T89-400W
110mm	White	25	333	110-400 polypro cap w/ .015" PTFE liner	1T110-400W	5T110-400W



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CAPS • LINERS • SEPTA

unlined POLYPROPYLENE CAPS



Unlined polypropylene caps are well-known for their excellent impact strength, cost effectiveness, and pliability. These unlined caps are autoclavable and are suitable for many uses, preferably with non-liquid substances.

Related Product:
PTFE Cap Liners

Size	Color	Case	Bulk	Description	Level 1	Level 5
22mm	White	50	5000	22-400 Polypropylene unlined cap	1022-400W	B022-400W
24mm	White	50	4000	24-400 Polypropylene unlined cap	1024-400W	B024-400W
28mm	White	50	6250	28-400 Polypropylene unlined cap	1028-400W	B028-400W
33mm	Black	50	2000	33-430 Polypropylene unlined cap	1033-430B	B033-430B
33mm	White	50	2000	33-430 Polypropylene unlined cap	1033-430W	B033-430W
33mm	White	50	5000	33-400 Polypropylene unlined cap	1033-400W	B033-400W
33mm	Yellow	50	5000	33-400 Polypropylene unlined cap	1033-400Y	B033-400Y
33mm	Red	50	5000	33-400 Polypropylene unlined cap	1033-400R	B033-400R
38mm	Black	50	2900	38-400 Polypropylene unlined cap	1038-400B	B038-400B
38mm	Black	50	1200	38-430 Polypropylene unlined cap	1038-430B	B038-430B
38mm	Black	50	1200	38-439 Polypropylene unlined cap	1038-439B	B038-439B
38mm	White	50	3750	38-400 Polypropylene unlined cap	1038-400W	B038-400W
43mm	White	50	3000	43-400 Polypropylene unlined cap	1043-400W	B043-400W
45mm	White	50	2000	45-400 Polypropylene unlined cap	1045-400W	B045-400W
48mm	White	50	2500	48-400 Polypropylene unlined cap	1048-400W	B048-400W
53mm	White	50	2000	53-400 Polypropylene unlined cap	1053-400W	B053-400W
53mm	Yellow	50	2000	53-400 Polypropylene unlined cap	1053-400Y	B053-400Y
53mm	Red	50	2000	53-400 Polypropylene unlined cap	1053-400R	B053-400R
58mm	White	50	1650	58-400 Polypropylene unlined cap	1058-400W	B058-400W
58mm	Red	50	1650	58-400 Polypropylene unlined cap	1058-400R	B058-400R
58mm	Yellow	50	1650	58-400 Polypropylene unlined cap	1058-400Y	B058-400Y
63mm	White	50	1500	63-400 Polypropylene unlined cap	1063-400W	B063-400W
70mm	Red	50	1000	70-400 Polypropylene unlined cap	1070-400R	B070-400R
70mm	Yellow	50	1000	70-400 Polypropylene unlined cap	1070-400Y	B070-400Y
70mm	White	50	1000	70-400 Polypropylene unlined cap	1070-400W	B070-400W
70mm	White	50	700	70-450 Polypropylene unlined cap	1070-450W	B070-450W
83mm	White	50	550	83-400 Polypropylene unlined cap	1083-400W	B083-400W
89mm	Red	50	624	89-400 Polypropylene unlined cap	1089-400R	B089-400R
89mm	Yellow	50	624	89-400 Polypropylene unlined cap	1089-400Y	B089-400Y
89mm	White	50	624	89-400 Polypropylene unlined cap	1089-400W	B089-400W
110mm	White	25	333	110-400 Polypropylene unlined cap	1110-400W	B110-400W



CAPS • LINERS • SEPTA

PTFE CAP LINERS



Size	Cap	Case	Bulk	Description	Level 1	Level 5
22mm	22-400	50	1000	0.015" thickness PTFE liner	1TFE-22mm	BTFE-22mm
24mm	24-400	50	1000	0.015" thickness PTFE liner	1TFE-24mm	BTFE-24mm
28mm	28-400	50	1000	0.015" thickness PTFE liner	1TFE-28mm	BTFE-28mm
33mm	33-400	50	1000	0.015" thickness PTFE liner	1TFE-33mm	BTFE-33mm
33mm	33-430	50	1000	0.015" thickness PTFE liner	1TFE-33mm-430	BTFE-33mm-430
38mm	38-400	50	1000	0.015" thickness PTFE liner	1TFE-38mm	BTFE-38mm
38mm	38-430	50	1000	0.015" thickness PTFE liner	1TFE-38mm-430	BTFE-38mm-430
43mm	43-400	50	1000	0.015" thickness PTFE liner	1TFE-43mm	BTFE-43mm
45mm	45-400	50	1000	0.015" thickness PTFE liner	1TFE-45mm	BTFE-45mm
48mm	48-400	50	1000	0.015" thickness PTFE liner	1TFE-48mm	BTFE-48mm
53mm	53-400	50	1000	0.015" thickness PTFE liner	1TFE-53mm	BTFE-53mm
58mm	58-400	50	1000	0.015" thickness PTFE liner	1TFE-58mm	BTFE-58mm
63mm	63-400	50	1000	0.015" thickness PTFE liner	1TFE-63mm	BTFE-63mm
70mm	70-400	50	1000	0.015" thickness PTFE liner	1TFE-70mm	BTFE-70mm
83mm	83-400	50	500	0.015" thickness PTFE liner	1TFE-83mm	BTFE-83mm
89mm	89-400	50	500	0.015" thickness PTFE liner	1TFE-89mm	BTFE-89mm
110mm	110-400	50	500	0.015" thickness PTFE liner	1TFE-110mm	BTFE-110mm

PTFE liners hold up to virtually all chemicals at room temperature and provide a tight seal with low moisture transmission. All PTFE cap liners sold by QEC are the full 0.015" thickness that complies with mandated EPA standards.

Available from QEC in most standard cap sizes from 22mm to 110mm.

- Chemically Inert
- Sterilizable
- Heat Resistant
- Non-Contaminating
- Reusable/Cleanable
- Unaffected by virtually all chemicals



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CAPS • LINERS • SEPTA



foam-lined POLYPROPYLENE CAPS

Foam-lined polypropylene caps have excellent sealing characteristics and good chemical resistance to acids, alcohols, alkalis, aqueous products, household oil and solvents, among others.

Foam liner consists of low-density polyethylene skin top and bottom with a foamed polyolefin core, in a chemically fused single polymeric product.

Uses include environmental lab samples, analytical lab samples, contaminant-intolerant chemicals, acids, solvents, and reagents.

Size	Color	Case	Bulk	Description	Level 1	Level 5
18mm	White	50	9500	18-400 Polypropylene cap with PE foam liner	1P18-400W	BP18-400W
18mm	White	50	7000	18-410 Polypropylene cap with PE foam liner	1P18-410W	BP18-410W
20mm	White	50	7500	20-410 Polypropylene cap with PE foam liner	1P20-410W	BP20-410W
24mm	White	50	5500	24-410 Polypropylene cap with PE foam liner	1P24-410W	BP24-410W
28mm	White	50	5200	28-400 Polypropylene cap with PE foam liner	1P28-400W	BP28-400W
28mm	White	50	3850	28-410 Polypropylene cap with PE foam liner	1P28-410W	BP28-410W
33mm	White	50	5000	33-400 Polypropylene cap with PE foam liner	1P33-400W	BP33-400W
38mm	White	50	3750	38-400 Polypropylene cap with PE foam liner	1P38-400W	BP38-400W
38mm	Black	50	3750	38-400 Polypropylene cap with PE foam liner	1P38-400B	BP38-400B
38mm	White	50	2900	38-400 PE foam lined cap w/ smooth top & sides	1P38-400WS	BP38-400WS
43mm	White	50	3000	43-400 Polypropylene cap with PE foam liner	1P43-400W	BP43-400W
43mm	Yellow	50	3000	43-400 Polypropylene cap with PE foam liner	1P43-400Y	BP43-400Y
43mm	Red	50	3000	43-400 Polypropylene cap with PE foam liner	1P43-400R	BP43-400R
43mm	Black	50	3000	43-400 Polypropylene cap with PE foam liner	1P43-400B	BP43-400B
45mm	White	50	2750	45-400 Polypropylene cap with PE foam liner	1P45-400W	BP45-400W
48mm	White	50	2500	48-400 Polypropylene cap with PE foam liner	1P48-400W	BP48-400W
48mm	White	50	1700	48-400 PE foam lined cap w/ smooth top & sides	1P48-400WS	BP48-400WS
48mm	Black	50	1700	48-400 Polypropylene cap with PE foam liner	1P48-400B	BP48-400B
53mm	White	50	2000	53-400 Polypropylene cap with PE foam liner	1P53-400W	BP53-400W
58mm	White	50	1650	58-400 Polypropylene cap with PE foam liner	1P58-400W	BP58-400W
63mm	White	50	1500	63-400 Polypropylene cap with PE foam liner	1P63-400W	BP63-400W
70mm	White	50	1000	70-400 Polypropylene cap with PE foam liner	1P70-400W	BP70-400W
83mm	White	50	500	83-400 Polypropylene cap with PE foam liner	1P83-400W	BP83-400W
89mm	White	50	624	89-400 Polypropylene cap with PE foam liner	1P89-400W	BP89-400W
110mm	White	25	333	110-400 Polypropylene cap with PE foam liner	1P110-400W	BP110-400W



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ACCESSORIES

labels & CUSTODY SEALS



Printed on high-quality 3M® tear-resistant label stock, QEC container labels and custody seals help you identify and protect the integrity of your samples. Large and small sizes to fit almost any container.

Size	Description	Pkg	Product No.
1" x 3.25"	Small custody seal	250	BC1000
1" x 7"	Large custody seal	125	BC1005
2" x 3.25"	Large container label	144	BL1000
2.5" x 2.5"	Square container label	72	BL1001
1.25" x 2.5"	Small container label, with tare weight	72	BL1002

foampak INSERTS



QEC's foam cooler insert fits a standard 48-quart insulated cooler. Insert holes can be adapted for various size containers. Containers are sold separately.

QEC's 9-vial shippers are made of soft polyurethane foam for safe transport of VOA vials. Vial shippers meet DOT requirements. Vials are sold separately.

QEC's 24-vial foam block for storage and shipping of 4mL and 7mL vials is made of sturdy high-density foam. Vials are sold separately.

Description	Pkg	Product No.
Foam insert to fit 48-quart cooler	1	0F5000
9-hole foam vial shipper, fits 40mL VOA vials	1	0F6000
24-hole dense foam vial shipper, fits 7mL and 4mL storage vials	1	0F6001



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ACCESSORIES



bubble BAGS

QEC offers bubble bags in sizes to fit up to a one liter jar. QEC bubble bags feature larger bubbles than those normally found in standard “office supply” bubble bags, for added strength and cushioning.

All bags have an adhesive strip for secure sealing. Indispensable for added safety and security when shipping glass containers. Containers sold separately.

Size	Color	Case	Description	Product No.
8" x 11.5"	Clear	100	Bubble bag with adhesive strip closure	18115BBAG
8" x 11.5"	Clear	450	Bubble bag with adhesive strip closure, bulk pack	B8115BBAG
6" x 8.5"	Clear	100	Bubble bag with adhesive strip closure	1685BBAG
6" x 8.5"	Clear	800	Bubble bag with adhesive strip closure, bulk pack	B685BBAG
4" x 7.5"	Clear	100	Bubble bag with adhesive strip closure	1475BBAG
4" x 7.5"	Clear	1250	Bubble bag with adhesive strip closure, bulk pack	B475BBAG
4" x 5.5"	Clear	100	Bubble bag with adhesive strip closure	1455BBAG
4" x 5.5"	Clear	1750	Bubble bag with adhesive strip closure, bulk pack	B455BBAG
4" x 5.5" tandem	Clear	450	Tandem (separable) 4x5.5 bubble bags with adhesive strip closures, bulk pack	5455X955BBAG



8-425 VIALS

Compatible with autosamplers from: Waters, Agilent, Shimadzu, Varian, Perkin Elmer, Beckman, and Leap

8-425 screw-thread vials are the original, standard opening vials. Vials are manufactured of Clear, Type I Class A or Amber, Type I Class B borosilicate glass. Available with a standard graduated write-on patch for easy filling and identification of sample. Require the use of 8-425 closures and 8mm septa.



Color	Volume	Description	Pkg	Product No.
Clear	1.5mL usable/2mL total	Standard Opening, Calibration Marks with Write-on Patch	100	QIV-C-008-001
Amber	1.5mL usable/2mL total	Standard Opening, Calibration Marks with Write-on Patch	100	QIV-A-008-001

Related Products:

Limited-Volume Vial Inserts

Low-Bleed Septa assembled with 8-425 Screw-thread Cap:

Red PTFE/White Silicone, 0.040"

Red PTFE/White Silicone/Red PTFE, 0.040"

Natural PTFE/Natural Silicone, 0.040"

Natural PTFE/Natural Silicone/Natural PTFE, 0.040"

Red PTFE/White Silicone, 0.060"

Natural PTFE/Natural Silicone, .060"

Septa available with no cap:

Red PTFE/White Silicone/Red PTFE, 0.040"

Natural PTFE/Natural Silicone/Natural PTFE, 0.040"

Red PTFE/White Silicone, 0.060"

Natural PTFE/Natural Silicone, .060"



8-425 CAPS & SEPTA

- 8-425 screw thread caps and vials are often used in conjunction with Shimadzu, Spectra-Physics, Varian, and other autosamplers
- Caps are made of high quality polypropylene to exact manufacturing tolerances and lined in a controlled manufacturing environment
- Cap colors are available in black only
- Our septa consist of only the highest quality materials to ensure proper function
- **Related Product: 8-425 Vials**

Red PTFE/White Silicone, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	Yes	QP3215-008-500A
Black	Inserted Into Cap	1,000	Yes	QP3215-008-500
Black	Inserted Into Cap	100	No	QP3212-008-500A
Black	Inserted Into Cap	1,000	No	QP3212-008-500

0.035" White Silicone with 0.005" Red PTFE

Designed for multiple injections and/or longer sample cycles - for both GC and LC applications

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Red PTFE/White Silicone/Red PTFE, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	No	QP3512-008-500A
Black	Inserted Into Cap	1,000	No	QP3512-008-500
No Cap	Loose Septa Only	100	No	QP3500-008-500A
No Cap	Loose Septa Only	1,000	No	QP3500-008-500

0.030" White Silicone sandwiched between two layers of 0.005" Red PTFE

Designed for the most demanding GC procedures such as trace analysis, or longer cycle times between injections

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

8-425 CAPS & SEPTA

Natural PTFE/Natural Silicone, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	Yes	QP3215-008-520A
Black	Inserted Into Cap	1,000	Yes	QP3215-008-520

0.035" Natural Silicone with 0.005" Natural PTFE

Designed for multiple injections and/or longer sample cycles, for both GC and LC applications

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Absence of pigments eliminates additional sources of contamination

Natural PTFE/Natural Silicone/Natural PTFE, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	No	QP3512-008-520A
Black	Inserted Into Cap	1,000	No	QP3512-008-520
No Cap	Loose Septa Only	100	No	QP3500-008-520A
No Cap	Loose Septa Only	1,000	No	QP3500-008-520

0.030" Natural Silicone sandwiched between two layers of 0.005" Natural PTFE

Designed for the most demanding GC procedures such as trace analysis, or longer cycle times between injections

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Absence of pigments eliminates additional sources of contamination

8-425 CAPS & SEPTA

Red PTFE/White Silicone, 0.060"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	No	QP3212-008-540A
Black	Inserted Into Cap	1,000	No	QP3212-008-540
No Cap	Loose Septa Only	100	No	QP3200-008-540A
No Cap	Loose Septa Only	1,000	No	QP3200-008-540

0.055" White Silicone with 0.005" Red PTFE

Designed for multiple injections and/or longer sample cycles, for both GC and LC applications

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Natural PTFE/Natural Silicone, .060"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	No	QP3212-008-560A
Black	Inserted Into Cap	1,000	No	QP3212-008-560
No Cap	Loose Septa Only	100	No	QP3200-008-560A
No Cap	Loose Septa Only	1,000	No	QP3200-008-560

0.055" Natural Silicone with 0.005" Natural PTFE

Designed for multiple injections and/or longer sample cycles, for both GC and LC applications

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Absence of pigments eliminates additional sources of contamination

9mm VIALS

Compatible with autosamplers from: Waters, Agilent, Shimadzu, Varian, Perkin Elmer, Beckman, and Leap

Designed to ensure proper centering of limited volume inserts, eliminating missed injections. Vials have a standard graduated write-on patch for easy filling and identification of sample. Vials are manufactured of Clear, Type 1 Class A or Amber, Type 1 Class B, borosilicate glass. May be used with robotic autosamplers in place of crimp style vials. Vials have a 40% larger opening for easier sample preparation. Vials must be used with 9mm closures to ensure proper fit and functionality.



Color	Volume	Description	Pkg	Product No.
Clear	1.5mL usable/2mL total	Standard Opening, Calibration Marks, no Patch	100	QIV-C-009-002
Clear	1.5mL usable/2mL total	Standard Opening, Calibration Marks with Write-on Patch	100	QIV-C-009-001
Amber	1.5mL usable/2mL total	Standard Opening, Calibration Marks with Write-on Patch	100	QIV-A-009-001

Related Products:

Limited-Volume Vial Inserts

9mm open-top Screw-thread Cap (colors black, blue or yellow), assembled with Low-Bleed Septa:

Red PTFE/White Silicone, 0.040"

Red PTFE/White Silicone/Red PTFE, 0.040"

Natural Rubber/FEP, 0.040"

Natural PTFE/Natural Silicone, 0.040"

Septa available with no cap:

Red PTFE/White Silicone, 0.040"

Red PTFE/White Silicone/Red PTFE, 0.040"

Natural Rubber/ETFE, 0.040"

Natural PTFE/Natural Silicone, 0.040"



9mm CAPS & SEPTA

- 9mm screw thread caps, septa, and vials are designed especially for use with Agilent's and other rotating or robotic arm samplers
- 2ml, 12X32mm vials are manufactured of Clear, Type 1 Class A or Amber, Type 1 Class B borosilicate glass and include calibration marks and a write-on patch for sample identification
- Polypropylene caps with ribbed sides for ease in handling. Standard cap colors include black, yellow, and blue. Special order cap colors are available upon request.
- Our septa consist of only the highest quality materials to ensure proper function
- **Related Product: 9mm Vials**

Red PTFE/White Silicone, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Yellow	Inserted Into Cap	100	Yes	QP3215-009-502A
Yellow	Inserted Into Cap	1,000	Yes	QP3215-009-502
Blue	Inserted Into Cap	100	Yes	QP3215-009-501A
Blue	Inserted Into Cap	1,000	Yes	QP3215-009-501
Black	Inserted Into Cap	100	Yes	QP3215-009-500A
Black	Inserted Into Cap	1,000	Yes	QP3215-009-500
Yellow	Inserted Into Cap	100	No	QP3212-009-502A
Yellow	Inserted Into Cap	1,000	No	QP3212-009-502
Blue	Inserted Into Cap	100	No	QP3212-009-501A
Blue	Inserted Into Cap	1,000	No	QP3212-009-501
Black	Inserted Into Cap	100	No	QP3212-009-500A
Black	Inserted Into Cap	1,000	No	QP3212-009-500
No Cap	Loose Septa Only	100	No	QP3200-009-500A
No Cap	Loose Septa Only	1,000	No	QP3200-009-500

0.035" White Silicone with 0.005" Red PTFE

Designed for multiple injections and/or longer sample cycles - for both GC and LC applications
High quality silicone used to ensure proper re-sealing and reduced chances of coring

9mm CAPS & SEPTA

Red PTFE/White Silicone/Red PTFE, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Yellow	Inserted Into Cap	100	No	QP3512-009-502A
Yellow	Inserted Into Cap	1,000	No	QP3512-009-502
Blue	Inserted Into Cap	100	No	QP3512-009-501A
Blue	Inserted Into Cap	1,000	No	QP3512-009-501
Black	Inserted Into Cap	100	No	QP3512-009-500A
Black	Inserted Into Cap	1,000	No	QP3512-009-500
No Cap	Loose Septa Only	100	No	QP3500-009-500A
No Cap	Loose Septa Only	1,000	No	QP3500-009-500

0.030" White Silicone sandwiched between two layers of 0.005" Red PTFE

Designed for the most demanding GC procedures such as trace analysis, or longer cycle times between injections

High quality silicon used to ensure proper re-sealing and reduced coring

Natural Rubber/ETFE, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Yellow	Inserted Into Cap	100	No	QP5612-009-502A
Yellow	Inserted Into Cap	1,000	No	QP5612-009-502
Blue	Inserted Into Cap	100	No	QP5612-009-501A
Blue	Inserted Into Cap	1,000	No	QP5612-009-501
Black	Inserted Into Cap	100	No	QP5612-009-500A
Black	Inserted Into Cap	1,000	No	QP5612-009-500
No Cap	Loose Septa Only	100	No	QP5600-009-500A
No Cap	Loose Septa Only	1,000	No	QP5600-009-500

0.038" Red Natural Rubber with 0.002" Clear ETFE

Used for general analyses in gas chromatography. A very popular and economical choice

Low durometer & high elongation natural rubber allows for ease of needle penetration



9mm CAPS & SEPTA

Natural PTFE/Natural Silicone, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Yellow	Inserted Into Cap	100	Yes	QP3215-009-522A
Yellow	Inserted Into Cap	1,000	Yes	QP3215-009-522
Blue	Inserted Into Cap	100	Yes	QP3215-009-521A
Blue	Inserted Into Cap	1,000	Yes	QP3215-009-521
Black	Inserted Into Cap	100	Yes	QP3215-009-520A
Black	Inserted Into Cap	1,000	Yes	QP3215-009-520
Yellow	Inserted Into Cap	100	No	QP3212-009-522A
Yellow	Inserted Into Cap	1,000	No	QP3212-009-522
Blue	Inserted Into Cap	100	No	QP3212-009-521A
Blue	Inserted Into Cap	1,000	No	QP3212-009-521
Black	Inserted Into Cap	100	No	QP3212-009-520A
Black	Inserted Into Cap	1,000	No	QP3212-009-520
No Cap	Loose Septa Only	100	No	QP3200-009-520A
No Cap	Loose Septa Only	1,000	No	QP3200-009-520

0.035" Natural Silicone with 0.005" Natural PTFE

Designed for multiple injections and/or longer sample cycles, for both GC and LC applications

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Absence of pigments eliminates additional sources of contamination

10-425 VIALS

Compatible with autosamplers from: Waters, Agilent, Shimadzu, Varian, Beckman

Wide-opening vials provide an increased target area for easier sample preparation and to reduce the chance of bent or broken needles during sampling. Vials are manufactured of Clear, Type 1 Class A or Amber, Type 1 Class B borosilicate glass. Available with or without write-on patch with calibration marks. Requires the use of 10-425 screw thread closures and 10mm septa.



Color	Volume	Description	Pkg	Product No.
Clear	1.5mL usable/2mL total	Standard Opening, No Patch	100	QIV-C-010-002
Clear	1.5mL usable/2mL total	Standard Opening, Calibration Marks with Write-on Patch	100	QIV-C-010-001
Amber	1.5mL usable/2mL total	Standard Opening, No Patch	100	QIV-A-010-002
Amber	1.5mL usable/2mL total	Standard Opening, Calibration Marks with Write-on Patch	100	QIV-A-010-001

Related Products:

Limited-Volume Vial Inserts

Low-Bleed Septa assembled with 10-425 Screw-thread Cap:

Natural PTFE/Natural Silicone, 0.040"

Natural PTFE/Natural Silicone/Natural PTFE, 0.040"

Red PTFE/White Silicone, 0.040"

Red PTFE/White Silicone/Red PTFE, 0.040"

Red PTFE/White Silicone, 0.060"

Natural PTFE/Natural Silicone, .060"

Septa available with no cap:

Natural PTFE/Natural Silicone/Natural PTFE, 0.040"

Red PTFE/White Silicone/Red PTFE, 0.040"

Red PTFE/White Silicone, 0.060"

Natural PTFE/Natural Silicone, .060"



10-425 CAPS & SEPTA

- 10-425 screw thread caps, septa and vials provide a wider opening to reduce potential needle bending/breaking during sampling
- Caps are made of high quality polypropylene to exact manufacturing tolerances and lined in a controlled manufacturing environment
- Cap colors are available in black only
- Our septa consist of only the highest quality materials to ensure proper function
- **Related Product: 10-425 Vials**

Red PTFE/White Silicone, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	Yes	QP3215-010-500A
Black	Inserted Into Cap	1,000	Yes	QP3215-010-500

0.035" White Silicone with 0.005" Red PTFE

Designed for multiple injections and/or longer sample cycles - for both GC and LC applications

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Red PTFE/White Silicone/Red PTFE, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	No	QP3512-010-500A
Black	Inserted Into Cap	1,000	No	QP3512-010-500
No Cap	Loose Septa Only	100	No	QP3500-010-500A
No Cap	Loose Septa Only	1,000	No	QP3500-010-500

0.030" White Silicone sandwiched between two layers of 0.005" Red PTFE

Designed for the most demanding GC procedures such as trace analysis, or longer cycle times between injections

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring



10-425 CAPS & SEPTA

Natural PTFE/Natural Silicone, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	Yes	QP3215-010-520A
Black	Inserted Into Cap	1,000	Yes	QP3215-010-520

0.035" Natural Silicone with 0.005" Natural PTFE

Designed for multiple injections and/or longer sample cycles, for both GC and LC applications.
High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring
Absence of pigments eliminates additional sources of contamination.

Natural PTFE/Natural Silicone/Natural PTFE, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	No	QP3512-010-520A
Black	Inserted Into Cap	1,000	No	QP3512-010-520
No Cap	Loose Septa Only	100	No	QP3500-010-520A
No Cap	Loose Septa Only	1,000	No	QP3500-010-520

0.030" Natural Silicone sandwiched between two layers of 0.005" Natural PTFE

Designed for the most demanding GC procedures such as trace analysis, or longer cycle times between injections.

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring.
Absence of pigments eliminates additional sources of contamination.

10-425 CAPS & SEPTA

Red PTFE/White Silicone, 0.060"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	No	QP3212-010-540A
Black	Inserted Into Cap	1,000	No	QP3212-010-540
No Cap	Loose Septa Only	100	No	QP3200-010-540A
No Cap	Loose Septa Only	1,000	No	QP3200-010-540

0.055" White Silicone with 0.005" Red PTFE

Designed for multiple injections and/or longer sample cycles, for both GC and LC applications.

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring.

Natural PTFE/Natural Silicone, 0.060"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted into cap	100	No	QP3212-010-560A
Black	Inserted Into Cap	1,000	No	QP3212-010-560
No Cap	Loose Septa Only	100	No	QP3200-010-560A
No Cap	Loose Septa Only	1,000	No	QP3200-010-560

0.055" Natural Silicone with 0.005" Natural PTFE

Designed for multiple injections and/or longer sample cycles, for both GC and LC applications

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Absence of pigments eliminates additional sources of contamination

11mm VIALS (crimp)

Compatible with autosamplers from: Waters, Agilent, Shimadzu, Varian, Perkin Elmer, Beckman, and Leap

Wide Opening or standard opening. Wide opening vials present a 40% larger needle target than standard opening vials. Manufactured of Clear, Type 1 Class A or Amber, Type 1 Class B, borosilicate glass. Available with standard graduated write-on patch. The standard 12x32mm profile is compatible with 11mm aluminum seal closures.



Color	Volume	Description	Pkg	Product No.
Clear	1.5mL usable/2mL total	Wide Opening, No Patch	100	QIV-C-011-002
Clear	1.5mL usable/2mL total	Wide Opening, Calibration Marks, with Write-on Patch	100	QIV-C-011-001
Amber	1.5mL usable/2mL total	Wide Opening, No Patch	100	QIV-A-011-002
Amber	1.5mL usable/2mL total	Wide Opening, Calibration Marks, with Write-on Patch	100	QIV-A-011-001

Related Products:

Limited-Volume Vial Inserts

11mm open-top crimp seal cap (colors silver, red, or green), assembled with Low-Bleed Septa:

Red PTFE/White Silicone, 0.040"

Red PTFE/White Silicone/Red PTFE, 0.040"

Natural PTFE/Natural Silicone, 0.040"

Natural PTFE/Natural Silicone/Natural PTFE, 0.040"

Natural ETFE/Rubber, .040"

Septa available with no cap:

Red PTFE/White Silicone, 0.040"

Red PTFE/White Silicone/Red PTFE, 0.040"

Natural PTFE/Natural Silicone, 0.040"

Natural PTFE/Natural Silicone/Natural PTFE, 0.040"

Natural ETFE/Rubber, .040"



11mm ALUMINUM SEALS

- 11mm aluminum crimp top seals have a larger opening to ensure proper needle penetration
- Caps are made of high quality lacquered aluminum, 0.010" thick
- Standard cap colors include silver, red, and green. Special order cap colors are available on request.
- Our septa consist of only the highest quality materials to ensure proper function
- **Related Product:** 11mm Crimp Seal Vials

Red PTFE/White Silicone, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Green	Inserted Into Cap	100	No	QP3242-011-702A
Green	Inserted Into Cap	1,000	No	QP3242-011-702
Red	Inserted Into Cap	100	No	QP3242-011-701A
Red	Inserted Into Cap	1,000	No	QP3242-011-701
Silver	Inserted Into Cap	100	No	QP3242-011-700A
Silver	Inserted Into Cap	1,000	No	QP3242-011-700
No Cap	Loose Septa Only	100	No	QP3200-011-700A
No Cap	Loose Septa Only	1,000	No	QP3200-011-700

0.035" White Silicone with 0.005" Red PTFE

Designed for multiple injections and/or longer sample cycles - for both GC and LC applications

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

11mm ALUMINUM SEALS

Red PTFE/White Silicone/Red PTFE, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Green	Inserted Into Cap	100	No	QP3542-011-702A
Green	Inserted Into Cap	1,000	No	QP3542-011-702
Red	Inserted Into Cap	100	No	QP3542-011-701A
Red	Inserted Into Cap	1,000	No	QP3542-011-701
Silver	Inserted Into Cap	100	No	QP3542-011-700A
Silver	Inserted Into Cap	1,000	No	QP3542-011-700
No Cap	Loose Septa Only	100	No	QP3500-011-700A
No Cap	Loose Septa Only	1,000	No	QP3500-011-700

0.030" White Silicone sandwiched between two layers of 0.005" Red PTFE

Designed for the most demanding GC procedures such as trace analysis, or longer cycle times between injections

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Natural PTFE/Natural Silicone, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Green	Inserted Into Cap	100	No	QP3242-011-722A
Green	Inserted Into Cap	1,000	No	QP3242-011-722
Red	Inserted Into Cap	100	No	QP3242-011-721A
Red	Inserted Into Cap	1,000	No	QP3242-011-721
Silver	Inserted Into Cap	100	No	QP3242-011-720A
Silver	Inserted Into Cap	1,000	No	QP3242-011-720
No Cap	Loose Septa Only	100	No	QP3200-011-720A
No Cap	Loose Septa Only	1,000	No	QP3200-011-720

0.035" Natural Silicone with 0.005" Natural PTFE

Designed for multiple injections and/or longer sample cycles, for both GC and LC applications

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Absence of pigments eliminates additional sources of contamination

11mm ALUMINUM SEALS

Natural PTFE/Natural Silicone/Natural PTFE, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Green	Inserted Into Cap	100	No	QP3542-011-722A
Green	Inserted Into Cap	1,000	No	QP3542-011-722
Red	Inserted Into Cap	100	No	QP3542-011-721A
Red	Inserted Into Cap	1,000	No	QP3542-011-721
Silver	Inserted Into Cap	100	No	QP3542-011-720A
Silver	Inserted Into Cap	1,000	No	QP3542-011-720
No Cap	Loose Septa Only	100	No	QP3500-011-720A
No Cap	Loose Septa Only	1,000	No	QP3500-011-720

0.030" Natural Silicone sandwiched between two layers of 0.005" Natural PTFE
Designed for the most demanding GC procedures such as trace analysis, or longer cycle times between injections
High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring
Absence of pigments eliminates additional sources of contamination

Natural Rubber/FEP, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Green	Inserted Into Cap	100	No	QP5642-011-702A
Green	Inserted Into Cap	1,000	No	QP5642-011-702
Red	Inserted Into Cap	100	No	QP5642-011-701A
Red	Inserted Into Cap	1,000	No	QP5642-011-701
Silver	Inserted Into Cap	100	No	QP5642-011-700A
Silver	Inserted Into Cap	1,000	No	QP5642-011-700
No Cap	Loose Septa Only	100	No	QP5600-011-700A
No Cap	Loose Septa Only	1,000	No	QP5600-011-700

0.038" Red Natural Rubber with 0.002" Clear FEP
Used for general analyses in gas chromatography
Low durometer and high elongation Natural Rubber allows for ease of needle penetration
A very popular and economical choice

13-425 VIALS

Compatible with autosamplers from: Waters and Shimadzu

Made of Clear, Type 1 Class A or Amber, Type 1 Class B borosilicate glass. Vials have a standard graduated write-on patch. Requires the use of 13-425 closures and septa.



Color	Volume	Description	Pkg	Product No.
Clear	4mL usable/4mL total	Standard Opening, No Patch	144	QIV-C-013-002
Clear	4mL usable/2mL total	Standard Opening, with Write-on Patch	144	QIV-C-013-001
Amber	4mL usable/4mL total	Standard Opening, No Patch	144	QIV-A-013-002
Amber	4mL usable/4mL total	Standard Opening, with Write-on Patch	144	QIV-A-013-001

Related Products:

Low-Bleed Septa assembled with 13-425 Screw-thread Cap:

Red PTFE/White Silicone/Red PTFE, 0.040"

Natural PTFE/Natural Silicone/Natural PTFE, 0.040"

Red PTFE/White Silicone, 0.060"

Natural PTFE/Natural Silicone, .060"

Septa available with no cap:

Red PTFE/White Silicone/Red PTFE, 0.040"

Natural PTFE/Natural Silicone/Natural PTFE, 0.040"

Red PTFE/White Silicone, 0.060"

Natural PTFE/Natural Silicone, .060"

4mL Storage Vials with 13-425 finish

7mL Storage Vials with 15-425 finish

13-425 CAPS & SEPTA

- 13-425 screw thread caps, septa, and vials are designed for specific use with the Waters WISP 48-Position autosampler
- Caps are made of high quality polypropylene to exact manufacturing tolerances and lined in a controlled manufacturing environment
- Cap colors are available in black only
- Our septa consist of only the highest quality materials to ensure proper function
- **Related Product: 13-425 Vials**

Red PTFE/White Silicone/Red PTFE, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	No	QP3512-013-500A
Black	Inserted Into Cap	1,000	No	QP3512-013-500
No Cap	Loose Septa Only	100	No	QP3500-013-500A
No Cap	Loose Septa Only	1,000	No	QP3500-013-500

0.030" White Silicone sandwiched between two layers of 0.005" Red PTFE
Designed for the most demanding GC procedures such as trace analysis, or longer cycle times between injections
High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Natural PTFE/Natural Silicone/Natural PTFE, 0.040"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	No	QP3512-013-520A
Black	Inserted Into Cap	1,000	No	QP3512-013-520
No Cap	Loose Septa Only	100	No	QP3500-013-520A
No Cap	Loose Septa Only	1,000	No	QP3500-013-520

0.030" Natural Silicone sandwiched between two layers of 0.005" Natural PTFE
Designed for the most demanding GC procedures such as trace analysis, or longer cycle times between injections
High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring
Absence of pigments eliminates additional sources of contamination

13-425 CAPS & SEPTA

Red PTFE/White Silicone, 0.060"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	No	QP3212-013-540A
Black	Inserted Into Cap	1,000	No	QP3212-013-540
No Cap	Loose Septa Only	100	No	QP3200-013-540A
No Cap	Loose Septa Only	1,000	No	QP3200-013-540

0.055" White Silicone with 0.005" Red PTFE

Designed for multiple injections and/or longer sample cycles, for both GC and LC applications

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Natural PTFE/Natural Silicone 0.060"



Cap	Description	Pkg	Pre-Slit	Product No.
Black	Inserted Into Cap	100	No	QP3212-013-560A
Black	Inserted Into Cap	1,000	No	QP3212-013-560
No Cap	Loose Septa Only	100	No	QP3200-013-560A
No Cap	Loose Septa Only	1,000	No	QP3200-013-560

0.055" Natural Silicone with 0.005" Natural PTFE

Designed for multiple injections and/or longer sample cycles, for both GC and LC applications

High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring

Absence of pigments eliminates additional sources of contamination.

low volume VIAL INSERTS



QEC has limited-volume inserts to fit standard opening and wide opening autosampler vials.

- Limited-volume inserts are an economical way to reduce the use and waste of solvents in small samples.
- QEC's precision-point conical bottom inserts provide the smallest dead volume, and are a good choice for minimizing sample loss.
- Precise mandrel-formed vial inserts provide excellent injection accuracy.
- Polypropylene bottom springs attached to conical bottom inserts to help center the insert inside the vial and to protect the autosampler needle.
- QEC also has flat bottom inserts that are very economical and are often a viable option for limited sampling.

Size	Description	Pkg	Product No.
5x29mm	150 µl clear insert with bottom spring for 8mm standard opening	100	QIV-150S-PSA
5x31mm	200 µl clear insert with flat bottom for 8mm standard opening	100	QIV-200S-FA
5x31mm	100 µl clear insert, no spring, for 8mm standard opening	100	QIV-100S-NA
4x25mm	50 µl clear insert with bottom spring for 8mm standard opening	100	QIV-50S-PSA
6x29mm	250 µl clear insert with bottom spring for 9mm, 10mm, 11mm wide opening	100	QIV-250W-PSA
6x31mm	250 µl clear insert with flat bottom for 9mm, 10mm, 11mm wide opening	100	QIV-250W-FA
6x29mm	250 µl clear insert with no spring for 9mm, 10mm, 11mm wide opening	100	QIV-250W-NA
6x25mm	50 µl clear insert with spring bottom for 9mm, 10mm, 11mm wide opening	100	QIV-50W-PSA

Related Products:

8-425 vials
9mm vials
10-425 vials
11mm vials



headspace VIALS



QEC headspace vials are available in 6, 10 and 20 mL sizes. It is recommended that you use a large enough vial to ensure adequate headspace phase ratio.

QEC offers both round-bottomed and flat-bottomed vials. Either style is suitable, although round-bottomed vials may be preferred for autosamplers that move the vials in and out of a tray or oven. Round-bottomed vials also are stronger and tend to withstand higher pressures and temperatures.

QEC headspace vials have uniform glass thickness, which ensures even heat distribution for consistent sampling reliability.

All QEC crimp-top vials are finished with a beveled lip for reliable seal security.

Size	Color	Description	Pkg	Product No.
20mL	Clear	20mm, bevel finish, radius bottom	100	QIV-C-020-001R
10mL	Clear	20mm, bevel finish, radius bottom	100	QIV-C-010-001R
6mL	Clear	20mm, bevel finish, radius bottom	100	QIV-C-006-001R
20mL	Clear	20mm, bevel finish, flat bottom	100	QIV-C-020-001F
10mL	Clear	20mm, bevel finish, flat bottom	100	QIV-C-010-001F
6mL	Clear	20mm, bevel finish, flat bottom	100	QIV-C-006-001F
20mL	Clear	18mm, screw finish, radius bottom	100	QIV-C-018-020R
10mL	Clear	18mm, screw finish, radius bottom	100	QIV-C-018-010R
20mL	Amber	18mm, screw finish, radius bottom	100	QIV-A-018-020R
10mL	Amber	18mm, screw finish, radius bottom	100	QIV-A-018-010R

Related Products:

20mm PTFE/Silicone Septa

20mm Aluminum Crimp Seals

20mm Steel Magnetic Crimp Seals

20mm Bimetal Magnetic Crimp Seals

18mm Magnetic Screw Caps



HEADSPACE

magnetic CRIMP SEALS



Steel and Bi-metal Crimp Closures

20mm steel crimps (5mm or 8mm hole) - Tried and true magnetic autosampler cap. Cost effective, they perform well with low evaporation even under high temp/pressure. Steel closures resist manual crimping. Use of an autocrimper is recommended for steel crimp closures.

20mm bi-metal crimp - Bi-metal crimps give the same performance of a steel crimp while being more pliable than steel. The aluminum edges allow much easier manual crimping, and the steel center allows use of a magnetic pick-up device.

Size	Description	Pkg	Septa	Product No.
20mm	Red aluminum w/ steel center	100	.125" natural PTFE, white silicone	QP2003-020-8076
20mm	Red aluminum w/ steel center	100	.118" natural PTFE, trans-blue silicone	QP2003-020-8127
20mm	Red aluminum w/ steel center	100	PTFE/Butyl	QP2003-020-7637
20mm	Gold-colored steel	100	.125" natural PTFE, white silicone	QP2003-020-9608
20mm	Gold-colored steel	100	.118" natural PTFE, trans-blue silicone	QP2003-020-0164
20mm	Gold-colored steel	100	PTFE/Butyl	QP2003-020-0159

magnetic SCREW CAPS



Magnetic precision-thread screw caps present a convenient alternative to crimp cap designs. Caps come with 18mm liners already installed. The cap has a 8mm center hole suitable for SPME. QEC's 18mm screw closures give a good balance of performance, cost, and usability that has caused this product to grow in popularity.

Size	Description	Pkg	Septa	Product No.
18mm	Silver steel	100	0.060" White PTFE, trans-blue silicone	QP2003-018-7715
18mm	Silver steel	100	0.060" Blue PTFE, white silicone	QP2003-018-7712
18mm	Silver steel	100	0.074" Red PTFE, white silicone	QP2003-018-7711
18mm	Silver steel	100	0.060" Natural PTFE/Butyl	QP2003-018-7698



HEADSPACE

aluminum CRIMP SEALS

Aluminum seals are an excellent choice for procedures and equipment where a magnetic pick-up is not employed. Easy to use with hand-crimping tool. Available with or without septa inserted.



Size	Description	Pkg	Septa	Product No.
20mm	Aluminum	100	natural PTFE, natural silicone, 0.125"	QP3242-020-700A
20mm	Aluminum	1,000	natural PTFE, natural silicone, 0.125"	QP3242-020-700
20mm	Aluminum	100	natural PTFE, white silicone	QP3242-020-005A
20mm	Aluminum	1,000	natural PTFE, white silicone	QP3242-020-005
20mm	Aluminum	1,000	No Septa, Seals Only	QIC-A-020-001

headspace SEPTA

Low-Bleed PTFE/Silicone is one of the most commonly used headspace septa materials, and the one with the best performance characteristics.

The PTFE provides a barrier for chemical resistance. The Silicone layer provides an analytically clean backing material that ensures a good seal with the surface of the vial, and affords some degree of resealability when punctured. Silicone is also the best choice for high temperature work as it will perform up to about 200 C.



Size	Description	Pkg	Product No.
20mm	Natural PTFE/Natural Silicone - Loose Septa Only , fits 20mm seals	100	QP3200-020-700A
20mm	Natural PTFE/Natural Silicone - Loose Septa Only, fits 20mm seals	1,000	QP3200-020-700

Protecting your sample integrity™.
Every container... every time.



QUALITY ENVIRONMENTAL CONTAINERS, INC.

Post Office Box 1160
607 Industrial Park Road
Beaver, West Virginia 25813
United States

304.255.3900

304.255.3901/fax

800.255.3950

qecusa.com

info@qecusa.com