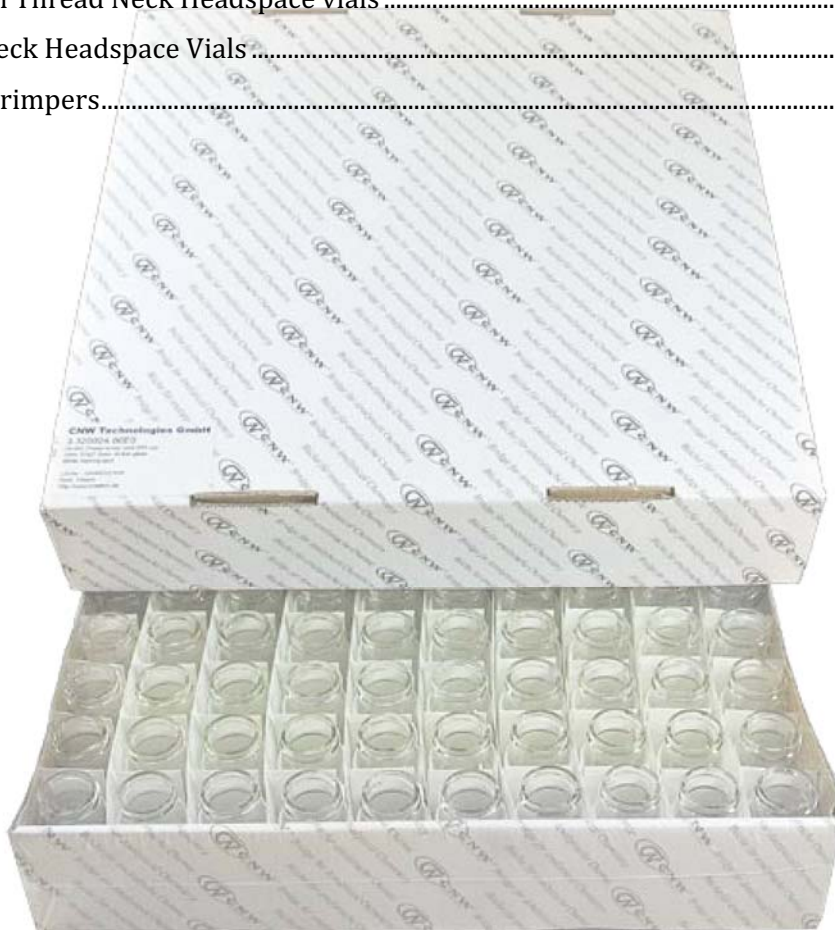
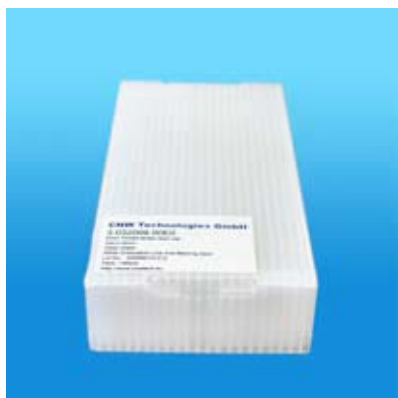


# Sample Vials

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# Selection Guide



## A VIAL IS A VIAL, OR IS IT?

Autosampler vials may seem insignificant when compared to the sophisticated analytical instrumentation most laboratories use, but the incorrect vial, cap or septa can contribute to problems that can decrease productivity and reproducibility.

Potential Problems Caused by Using Incorrect Vial/Cap/Septum:

- Loss of analyte due to evaporation
- Presence of extra peaks in the chromatogram due to solvent/septum interaction
- Mechanical damage to autosampler
- Sample degradation
- Irreproducible injection volumes

## What to Consider When Selecting an Autosampler Vial?

### Autosampler Compatibility

Not all autosamplers are alike. Some utilize robotic arms to pick up a sample vial; some use tray rotation while others move the sampling needle to the respective vial coordinates. The dimensions of autosampler vials vary. Most autosamplers are equipped with trays that use 12x32mm vial configurations but some like the Waters Wisp require a 15x45mm configuration. Consult your autosampler's operating manual or manufacturer to determine the vial dimensions required.

### Sample Volume

The amount of sample available for analysis is important in choosing the appropriate vial. If only a limited volume of sample is available, you will have to choose between using an insert for your regular autosampler vial, a microvial or a high recovery vial.

Note: Most 12x32 mm autosampler vials hold between 1.5mL to 2.0mL of liquid, depending on where the manufacture measures the vial full. The dimensions for 12x32mm vials are standard between manufacturers but the length of the neck and width/shape of the vial shoulder may vary. 12x32mm microvials have the same outer dimensions but the inside of the vial may be tapered to reduce volume or contain a fused insert. 12x32mm high recovery vials will have an internal conical bottom that allows for maximum sample recovery.

### Sample Compatibility

The analyte and solvent compatibility should be considered in choosing vials and accessories. For example, amber glass is most often used for light sensitive samples while deactivated glass or plastic vials are used for compounds that are sensitive to glass or stick to the glass itself. Volatile samples require closures that reduce the risk of analyte loss due to evaporation.

### Linear Coefficient of Expansion

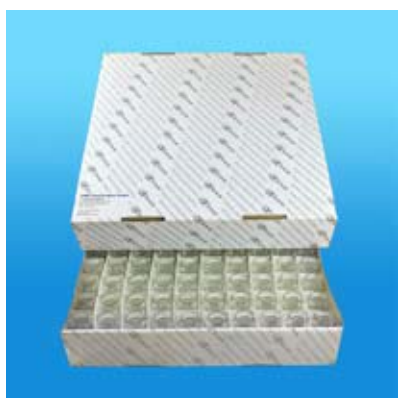
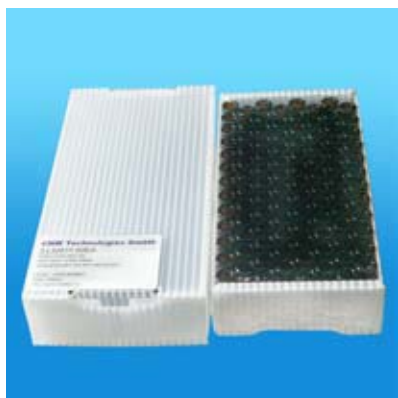
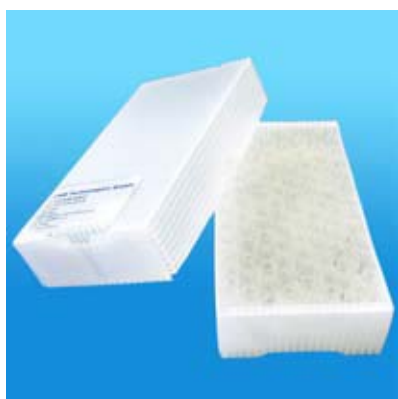
refers to the fractional change in the length of glass per degree of change in temperature, in short, the ability of the glass to tolerate rapid thermal changes. The lower the coefficient of expansion the better the glass can handle temperature change without fracturing.

Classifications for laboratory glass based on its resistance to attack from water were established by the United States Pharmacopoeia, USP.

USP Type 1, Class A, 33 Borosilicate Glass is the most inert and chemically resistant glass widely used in laboratories especially for chromatography applications. Type I glass is composed primarily of silicone and oxygen, with trace amounts of boron and sodium. It has the lowest leaching characteristics and a linear coefficient of expansion of 33.

USP Type 1, Class B, 51 Borosilicate Glass which is composed of silicone and oxygen, trace amounts of boron, sodium and other element is more alkaline than Class A glass but still adequate for laboratory use. All amber borosilicate glass is made of Class B unless otherwise specified and has an expansion coefficient of 51.

Silanized or deactivated glass is borosilicate glass that has undergone further deactivation by treating the surface of the glass with an organosilane. The surface



# Selection Guide



becomes more hydrophobic and inert making the vial suitable for use with pH sensitive compounds, trace analyses and applications requiring long term sample storage.

USP Types II, III and NP glass are manufactured from soda lime which has less chemical resistance than borosilicate.

Polypropylene is a rigid and translucent material, which also comes in a variety of colours and has good chemical resistance for short term storage of most common laboratory chemicals. Resistance decreases over time when using aromatic and halogenated hydrocarbons. Polypropylene vials are often used for ion chromatography because of the extremely low metal content and excellent cleanability with dilute acid followed by deionized water rinse. Polypropylene vials limit the exposure to hazardous materials since they can be incinerated while sealed.

Polymethylpentene (TPX) is a rigid transparent material, which has a relatively high melting point with a temperature range of 0°-170°C. TPX vials can be used as alternative to opaque polypropylene vials because they provide maximum clarity. Their chemical resistance is similar to that of polypropylene vials. TPX vials should be used for applications where visual clarity is required or repetitive exposure to higher temperatures such as autoclaving. TPX vials tend to be more brittle at room temperature.

## Type of Vial Finish and Closures

Autosampler vials are available in a variety of neck finishes and opening diameters. Large mouth or wide ID vials have approximately a 40% wider mouth opening than standard opening vials. The large opening reduces the risk of bent autosampler needles during sampling.

Screw thread vials and caps provide low evaporation, reusability, less hand injury during manipulation than crimp seals and require no special tools. All screw threads vials and caps are differentiated by their thread finish as defined by the Glass Packaging Institute, GPI. For screw thread vials, a two part number is assigned. For example, 8-425 neck finish represents a vial with a diameter of 8 mm across the outside of the threads and a thread style of 425. Screw thread vials and caps are more expensive than crimp seals.

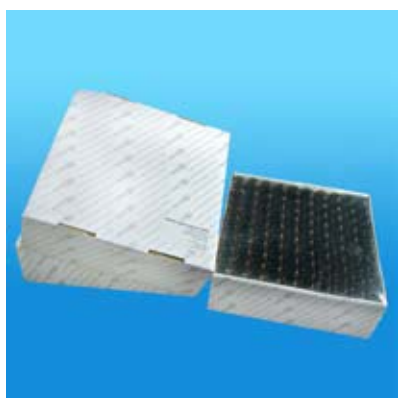
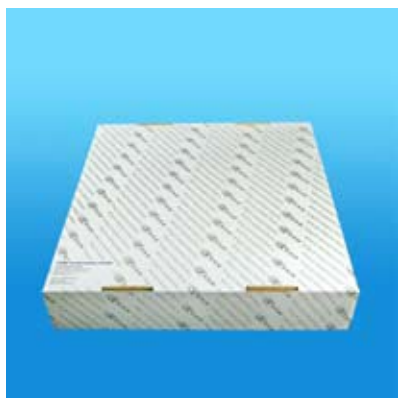
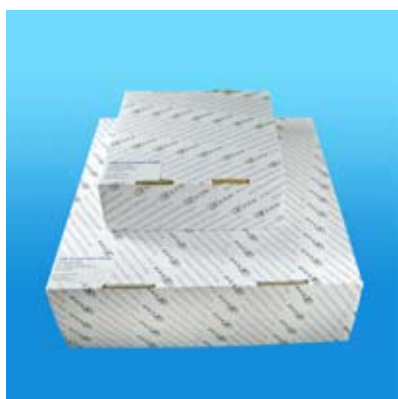
Caps for screw thread vials are available with either an open hole for autosampler use and standard addition or with a solid top for sample storage. One piece polypropylene cap and membrane are also available. These pierceable screw thread caps are designed for one time use and reduce sample preparation time as there is no cap and seal to assemble.

Crimp top vials require lacquered aluminum crimp seals which are relatively inexpensive and, when properly assembled, provide the best seal for long term storage. Crimp seals are not reusable.

A crimping tool is required to seal caps and a decrimper or decapper is required to remove the seals. Several types of hand crimpers are available including the adjustable precision crimpers that Chromatographic Specialties offers. Adjustable hand crimpers feature an adjustable stop on the handle to provide consistent seal tightness every time. Adjusting the hex screw inside the steel crimper jaws will also alter the amount of crimp. Achieving a good crimp is crucial because overcrimping can cause septum coring, bent needles and create a larger hole in the Teflon septum layer than a properly crimped seal. Undercrimping can result in loose seals and sample evaporation.

Snap seal vials are less prone to breakage during decapping because more glass is used in the neck of the vial. The snap seal neck finish is compatible with either crimp and/or snap seals and no special tools are required to remove the cap. These vials are recommended for short term sample storage and non-volatile samples because the seal is not as secure as a crimp or screw thread seal.

Shell vials are an economical alternative to screw thread vials for Waters' HPLC autosamplers or any other autosampler that doesn't use a robotic arm to move the vials. Most shell vials are sold with a polyethylene cap that has a starburst design for easy needle penetration.



# Selection Guide



## Septa Selection Guide

Optimise performance and results by choosing the right septum for your application:

### PTFE:

Exceptional solvent resistance

Only suitable for single injection use – not recommended for sample storage before or after injection

Not resealable

The most economical septa

Maximum service temperature 260°C



### PTFE/Silicone:

Excellent resealing capabilities – highly recommended for multiple injections and sample storage

Autoclavable and excellent resistance to coring

PTFE chemical resistance until pierced then the septa will have the compatibility of silicone

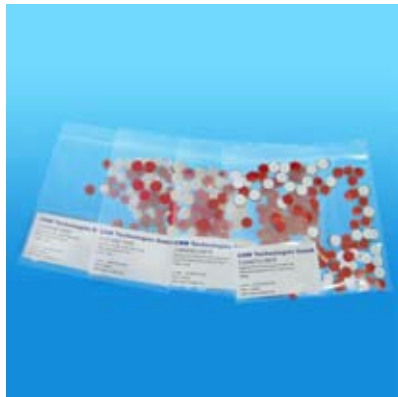
Temperature range -40°C to 200°C

### Pre-slit PTFE/Silicone:

Reduces the possibility of coring with blunt tipped needles or for applications using a thin gauge needle

Used to prevent vacuum from forming inside the vial

Temperature range -40°C to 200°C



### PTFE/Silicone/PTFE:

Recommended for multiple injections due to above average resealing capabilities

Autoclavable and excellent resistance to coring

Recommended for demanding applications such as internal standards, trace analysis or applications where there will be a long time between injections

Temperature range -40°C to 200°C

### PTFE/Red Rubber:

The most economical septa used in routine analysis

Easy to pierce with moderate resealability

PTFE chemical resistance until pierced then the septa will have the compatibility of rubber

Not recommended when retaining samples for further analysis or for multiple injections

Temperature range -40°C to 110°C



### Moulded Polypropylene:

Only suitable for single injection use – not recommended for sample storage before or after injection

Not resealable

Temperature range 0°C to 130°C

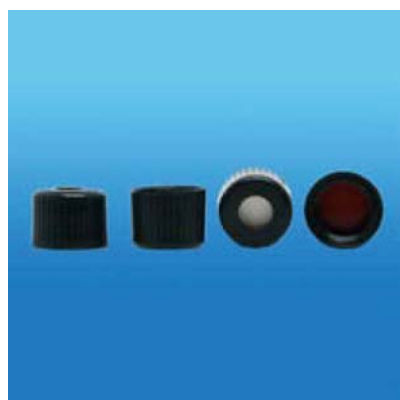
# Autosampler Vials



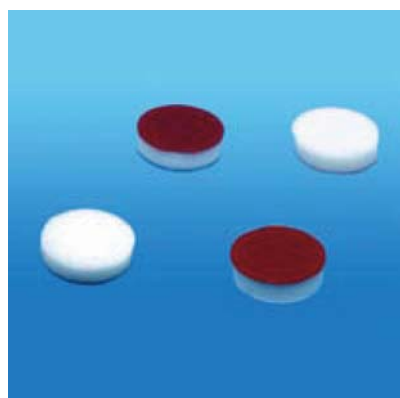
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3.031108.0000



3.005395.0800



3.607550.0800

## Autosampler Vials

### 8-425 Screw Thread Neck Vials

#### Why Choose 8-425 Screw Cap Vials?

8-425 screw thread vials are the original smaller opening autosampler vials. They are designed to work in a variety of autosamplers requiring narrow neck vials.

#### 8-425 Screw Thread Vials

Art.	Description	Pkg
3.032008.00E0	8-425 Thread screw neck vial, 32x11.6mm, clear glass, white graduation line and marking spot and LOGO	100pcs. per PP box
3.032008.00EA	8-425 Thread screw neck vial, 32x11.6mm, amber glass, white graduation line and marking spot and LOGO	100pcs. per PP box
3.032008.0Z00	8-425 Thread screw neck vial, 32x11.6mm, clear glass, Silanized	100pcs. per PP box
3.032008.0Z0A	8-425 Thread screw neck vial, 32x11.6mm, amber glass, Silanized	100pcs. per PP box
3.031108.0000	8-425 Thread screw neck Micro vial, 1.1ml, 32x11.6mm, clear glass, conical bottom	100pcs. per PP box
3.T30108.0000	8-425 Thread screw neck Micro vial, 0.1ml, 32x11.6mm, transparent TPX	100pcs. per PE bag

#### 8-425 Screw Caps

Art.	Description	Pkg
3.005310.0800	8-425 Screw thread cap, made from PP, black, centre hole	100pcs. per PE bag
3.W05310.0800	8-425 Screw thread cap, made from PP, white, centre hole	100pcs. per PE bag
3.005320.0800	8-425 Screw thread cap, made from PP, black, closed	100pcs. per PE bag
3.W05320.0800	8-425 Screw thread cap, made from PP, white, closed	100pcs. per PE bag

#### 8-425 Preassembled Caps

Art.	Description	Pkg
3.005394.0800	Preassembled cap and septa for 8-425 thread screw, PP cap, black, centre hole, Red rubber/White PTFE, 0.060" thick	100pcs. per PE bag
3.005395.0800	Preassembled cap and septa for 8-425 thread screw, PP cap, black, centre hole, White silicone/Red PTFE, 0.060" thick	100pcs. per PE bag
3.005396.0800	Preassembled cap and septa for 8-425 thread screw, PP cap, black, centre hole, Red PTFE/White Silicone/Red PTFE, 0.040" thick	100pcs. per PE bag
3.005397.0800	Preassembled cap and septa for 8-425 thread screw, PP cap, black, centre hole, White Silicone/Red PTFE, 0.075" thick, slitted	100pcs. per PE bag
3.005360.0800	Preassembled cap and septa for 8-425 thread screw, PP cap, black, closed, F217 line	100pcs. per PE bag
3.CS5360.0800	Preassembled cap and septa for 8-425 thread screw, PP cap, black, closed, White silicone/Red PTFE	100pcs. per PE bag

#### Septa for 8-425 Screw Caps

Art.	Description	Pkg
3.601010.0800	Septa for 8-425 screw thread cap, white PTFE only, 0.010" thick	100pcs. per PE bag
3.606040.0800	Septa for 8-425 screw thread cap, White PTFE/red Rubber, 0.060" thick	100pcs. per PE bag
3.606050.0800	Septa for 8-425 screw thread cap, White silicone/Red PTFE, 0.060" thick	100pcs. per PE bag
3.607550.0800	Septa for 8-425 screw thread cap, White silicone/Red PTFE, 0.075" thick	100pcs. per PE bag
3.607570.0800	Septa for 8-425 screw thread cap, White silicone/Red PTFE, slitted, 0.075" thick	100pcs. per PE bag

# Autosampler Vials



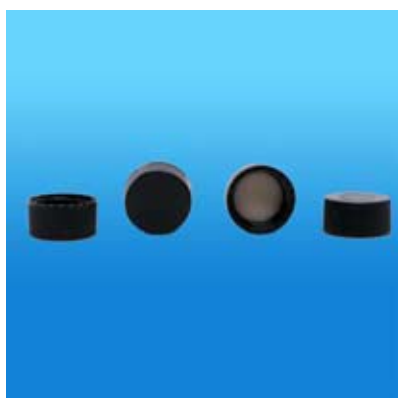
3.032009.00E0



3.032009.00EA



3.031509.0000



3.005360.0900

## 9mm Screw Thread Neck Vials

### Why Choose 9mm Screw Cap Vials?

9mm screw thread vials and the closure is dimensionally equivalent to 11mm crimp cap vials. This means that they can be used in any autosampler that uses 11mm crimp cap vials.

9mm screw caps have an advantage over 11mm crimp caps because 9mm screw caps can easily be applied and removed by hand and they can be reused.

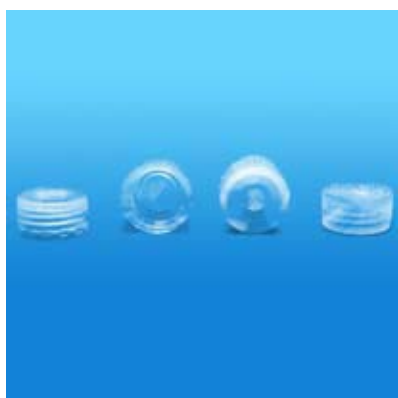
### 9mm Screw Thread Vials

Art.	Description	Pkg
3.032009.00E0	9mm Thread screw neck vial, 32x11.6mm, clear glass, white graduation line and marking spot and LOGO	100pcs. per PP box
3.032009.00EA	9mm Thread screw neck vial, 32x11.6mm, amber glass, white graduation line and marking spot and LOGO	100pcs. per PP box
3.032009.0Z00	9mm Thread screw neck vial, 32x11.6mm, clear glass, Silanized	100pcs. per PP box
3.032009.0ZE0	9mm Thread screw neck vial, 32x11.6mm, clear glass, white graduation line and marking spot and LOGO, Silanized	100pcs. per PP box
3.032009.0Z0A	9mm Thread screw neck vial, 32x11.6mm, amber glass, Silanized	100pcs. per PP box
3.032009.0ZEA	9mm Thread screw neck vial, 32x11.6mm, amber glass, white graduation line and marking spot and LOGO, Silanized	100pcs. per PP box
3.031509.0000	9mm Thread screw neck vial, 1.5mL, 32x11.6mm, clear glass, high recovery	100pcs. per PP box
3.031509.00EA	9mm Thread screw neck vial, 1.5mL, 32x11.6mm, clear glass, high recovery, white graduation line and marking spot	100pcs. per PP box
3.031509.0V00	9mm Thread screw neck vial, 1.5mL, V-Vial, 32x11.6mm, clear glass	100pcs. per PP box
3.031509.0V0A	9mm Thread screw neck vial, 1.5mL, V-Vial, 32x11.6mm, amber glass	100pcs. per PP box
3.031509.0U00	9mm Thread screw neck vial, 1.5mL, 32x11.6mm, clear glass, very high recovery	100pcs. per PP box
3.P30309.0000	9mm Thread screw neck vial, 32x11.6mm, 0.3mL micro-vial, transparent PP	100pcs. per PE bag
3.P30709.0000	9mm Thread screw neck vial, 32x11.6mm, 0.7mL micro-vial, transparent PP	100pcs. per PE bag
3.P32009.0000	9mm Thread screw neck vial, 32x11.6mm, transparent PP, with graduation line, slightly concave shaped bottom	100pcs. per PE bag
3.P32009.000A	9mm Thread screw neck vial, 32x11.6mm, amber PP, with graduation line, slightly concave shaped bottom	100pcs. per PE bag

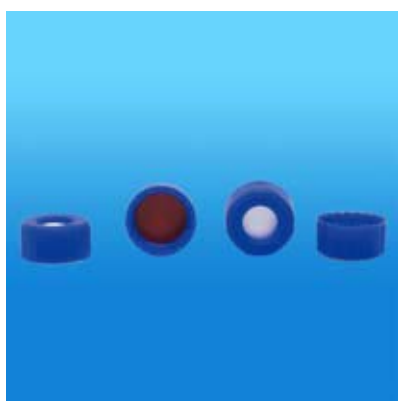
### 9mm Screw Caps

Art.	Description	Pkg
3.B05310.09FR	9mm Screw thread cap(Royal), made from PP, blue, centre hole	100pcs. per PE bag
3.R05310.0900	9mm Screw thread cap, made from PP, Red, centre hole	100pcs. per PE bag

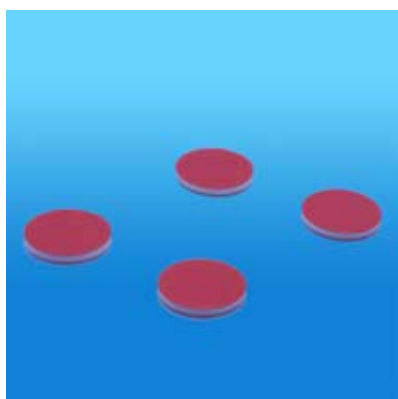
# Autosampler Vials



3.005330.09FR



3.B05398.0900



3.604060.09FR

## 9mm Preassembled caps

Art.	Description	Pkg
3.B05394.09FR	Preassembled cap and septa for 9mm thread screw, PP cap(Royal), blue, centre hole, White PTFE/red Rubber, 0.040" thick	100pcs. per PE bag
3.B05395.09FR	Preassembled cap and septa for 9mm thread screw, PP cap(Royal), blue, centre hole, White silicone/Red PTFE, 0.040" thick	100pcs. per PE bag
3.B05396.09FR	Preassembled cap and septa for 9mm thread screw, PP cap(Royal), blue, centre hole, Red PTFE/White silicone/ Red PTFE, 0.040" thick	100pcs. per PE bag
3.B05397.09FR	Preassembled cap and septa for 9mm thread screw, PP cap(Royal), blue, centre hole, White silicone/Red PTFE, 0.040" thick, slitted	100pcs. per PE bag
3.B05398.0900	Preassembled cap and septa for 9mm thread screw, PP cap, blue, centre hole, White silicone/Red PTFE, 0.040" thick, Bonded	100pcs. per PE bag
3.B05399.0900	Preassembled cap and septa for 9mm thread screw, PP cap, blue, centre hole, White silicone/Red PTFE, 0.040" thick, slitted, Bonded	100pcs. per PE bag
3.005330.09FR	Preassembled cap and septa for 9mm thread screw, design for MS, no bleed, septa no required	100pcs. per PE bag
3.005360.0900	Preassembled cap and septa for 9mm thread screw, PP cap, black, closed, F217 line	100pcs. per PE bag

## Septa for 9mm Screw Caps

Art.	Description	Pkg
3.601010.09FR	Septa for 9mm Royal screw thread cap, white PTFE only, 0.010" thick	100pcs. per PE bag
3.604040.09FR	Septa for 9mm Royal screw thread cap, White PTFE/red Rubber, 0.040" thick	100pcs. per PE bag
3.604050.09FR	Septa for 9mm Royal screw thread cap, White silicone/ Red PTFE, 0.040" thick	100pcs. per PE bag
3.604060.09FR	Septa for 9mm Royal screw thread cap, Red PTFE/White Silicone/Red PTFE, 0.040" thick	100pcs. per PE bag
3.604070.09FR	Septa for 9mm Royal screw thread cap, White silicone/ Red PTFE, 0.040" thick, slitted	100pcs. per PE bag

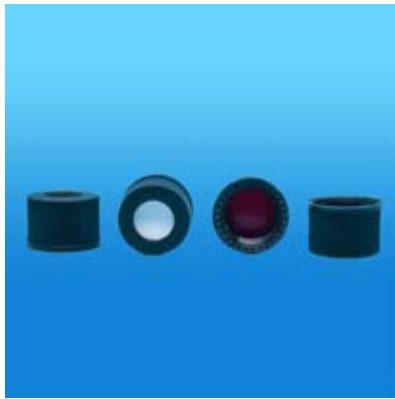
# Autosampler Vials



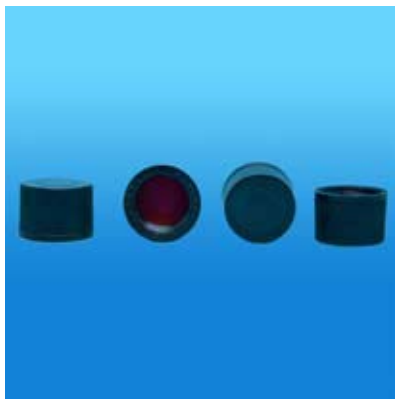
3.032010.00E0



3.032010.00EA



3.005395.1000



3.CS5360.1000

## 10-425 Screw Thread Neck Vials

### Why Choose 10-425 Screw Cap Vials?

10-425 screw cap vials feature a wider opening than other screw top vials. This increased target area makes sample preparation easier. It also reduces the chances of bent or broken needles during sampling.

### 10-425 Screw Thread Vials

Art.	Description	Pkg
3.032010.00E0	10-425 Thread screw neck vial, 32x11.6mm, clear glass, white graduation line and marking spot and LOGO	100pcs. per PP box
3.032010.00EA	10-425 Thread screw neck vial, 32x11.6mm, amber glass, white graduation line and marking spot and LOGO	100pcs. per PP box

### 10-425 Screw Caps

Art.	Description	Pkg
3.005310.1000	10-425 Screw thread cap, made from PP, black, centre hole	100pcs. per PE bag
3.005320.1000	10-425 Screw thread cap, made from PP, black, closed	100pcs. per PE bag

### 10-425 Preassembled Caps

Art.	Description	Pkg
3.005394.1000	Preassembled cap and septa for 10-425 thread screw, PP cap, black, centre hole, Red rubber/White PTFE, 0.060" thick	100pcs. per PE bag
3.005395.1000	Preassembled cap and septa for 10-425 thread screw, PP cap, black, centre hole, White silicone/Red PTFE, 0.060" thick	100pcs. per PE bag
3.005396.1000	Preassembled cap and septa for 10-425 thread screw, PP cap, black, centre hole, Red PTFE/White Silicone/Red PTFE, 0.040" thick	100pcs. per PE bag
3.005397.1000	Preassembled cap and septa for 10-425 thread screw, PP cap, black, centre hole, White Silicone/Red PTFE, 0.060" thick, slitted	100pcs. per PE bag
3.005360.1000	Preassembled cap and septa for 10-425 thread screw, PP cap, black, closed, F217 line	100pcs. per PE bag
3.CS5360.1000	Preassembled cap and septa for 10-425 thread screw, PP cap, black, closed, White silicone/Red PTFE	100pcs. per PE bag

### Septa for 10-425 Screw Caps

Art.	Description	Pkg
3.601010.1000	Septa for 10-425 screw thread cap, white PTFE only, 0.010" thick	100pcs. per PE bag
3.606050.1000	Septa for 10-425 screw thread cap, White silicone/Red PTFE, 0.060" thick	100pcs. per PE bag
3.606070.1000	Septa for 10-425 screw thread cap, White silicone/Red PTFE, slitted, 0.060" thick	100pcs. per PE bag
3.607550.1000	Septa for 10-425 screw thread cap, White silicone/Red PTFE, 0.075" thick	100pcs. per PE bag

# Autosampler Vials



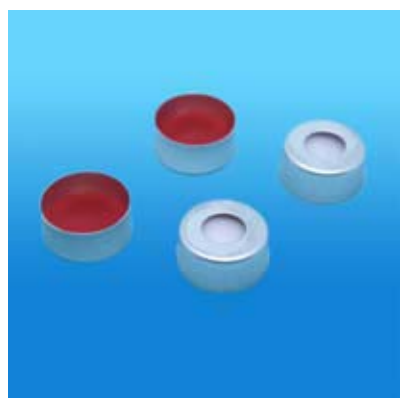
3.031511.0000



3.L32011.00EA



3.T30211.0G00



3.005150.1100

## 11mm Crimp Neck Vials

### Why Choose Crimp Cap Vials?

Crimp caps provide the tightest seal, reducing the chance of sample evaporation. The 12x32mm crimp vials and 11mm aluminium crimp caps are economical and easy to use with crimping tools.

### 11mm Crimp Neck Vials

Art.	Description	Pkg
3.L32011.00E0	11mm Crimp neck vial, 32x11.6mm, clear glass, white graduation line and marking spot and LOGO	100pcs. per PP box
3.L32011.00EA	11mm Crimp neck vial, 32x11.6mm, amber glass, white graduation line and marking spot and LOGO	100pcs. per PP box
3.L32011.0Z00	11mm Crimp neck vial, 32x11.6mm, clear glass, Silanized	100pcs. per PP box
3.L32011.0ZE0	11mm Crimp neck vial, 32x11.6mm, clear glass, white graduation line and marking spot and LOGO, Silanized	100pcs. per PP box
3.L32011.0ZEA	11mm Crimp neck vial, 32x11.6mm, amber glass, white graduation line and marking spot and LOGO, Silanized	100pcs. per PP box
3.030211.0000	11mm Crimp neck micro vial, 0.1ml, 32x11.6mm, clear glass, with integrated micro-insert, white graduation line and marking spot	100pcs. per PP box
3.031111.0000	11mm Crimp neck micro vial, 1.1ml, 32x11.6mm, clear glass, conical bottom	100pcs. per PP box
3.031511.0000	11mm Crimp neck vial, 32x11.6mm, clear glass, high recovery	100pcs. per PP box
3.031511.0V00	11mm Crimp neck vial, 1.5mL, V-Vial, 32x11.6mm, clear glass	100pcs. per PP box
3.031511.0V0A	11mm Crimp neck vial, 1.5mL, V-Vial, 32x11.6mm, amber glass	100pcs. per PP box
3.031511.0Z00	11mm Crimp neck vial, 32x11.6mm, clear glass, high recovery, Silanized	100pcs. per PP box

### 11mm Preassembled Crimp Caps

Art.	Description	Pkg
3.005110.1100	Preassembled cap and septa for 11mm Crimp neck, Aluminum cap, clear, centre hole, white PTFE septa, 0.010" thick	100pcs. per PE bag
3.005140.1100	Preassembled cap and septa for 11mm Crimp neck, Aluminum cap, clear, centre hole, Clear PTFE/Orange Silicone, 0.040" thick	100pcs. per PE bag
3.005140.11MS	Preassembled cap and septa for 11mm Crimp neck, magnetic cap, Silver, centre hole, nature rubber red-orange/TEF transparent, 0.040" thick	100pcs. per PE bag
3.005150.1100	Preassembled cap and septa for 11mm Crimp neck, Aluminum cap, clear, centre hole, White silicone/Red PTFE, 0.050" thick	100pcs. per PE bag
3.005150.11MS	Preassembled cap and septa for 11mm Crimp neck, magnetic cap, Silver, centre hole, White silicone/Red PTFE, 0.050" thick	100pcs. per PE bag
3.005160.1100	Preassembled cap and septa for 11mm Crimp neck, Aluminum cap, clear, centre hole, Red PTFE/White silicone/Red PTFE	100pcs. per PE bag
3.005170.1100	Preassembled cap and septa for 11mm Crimp neck, Aluminum cap, clear, centre hole, White silicone/Red PTFE, slitted	100pcs. per PE bag
3.005190.1100	Preassembled cap and septa for 11mm Crimp neck, Aluminum cap, clear, centre hole, Black Viton	100pcs. per PE bag

### Septa for 11mm Crimp Caps

Art.	Description	Pkg
3.601010.1100	Septa for 11mm crimp cap, white PTFE only, 0.010" thick	100pcs. per PE bag

# Autosampler Vials



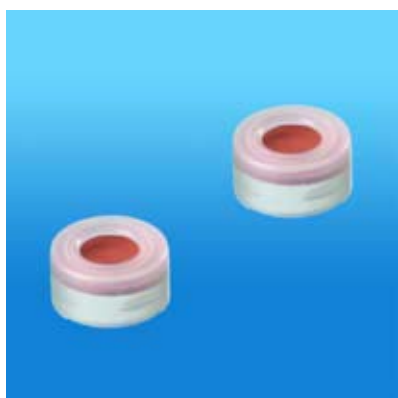
3.S32011.0000



3.S32011.00EA



3.P30111.0000



3.005540.1100

## 11mm Snap Neck Vials

### Why Choose Snap Cap Vials?

11mm snap caps provide a secure seal that minimises evaporation, even with volatile samples. Snap caps are often more convenient than crimp caps as they can easily be applied and removed by hand. An audible click ensures a secure seal has been formed and that the cap is correctly aligned.

Snap vials can be closed with either snap caps or crimp caps.

### 11mm Snap Neck Vials

Art.	Description	Pkg
3.S32011.0000	11mm Snap neck vial, 32x11.6mm, clear glass	100pcs. per PP box
3.S32011.00E0	11mm Snap neck vial, 32x11.6mm, clear glass, white graduation line and marking spot	100pcs. per PP box
3.S32011.00EA	11mm Snap neck vial, 32x11.6mm, amber glass, white graduation line and marking spot	100pcs. per PP box
3.S32011.0Z00	11mm Snap neck vial, 32x11.6mm, clear glass, Silanized	100pcs. per PP box
3.S32011.0ZE0	11mm Snap neck vial, 32x11.6mm, clear glass, white graduation line and marking spot, Silanized	100pcs. per PP box
3.S32011.0ZEA	11mm Snap neck vial, 32x11.6mm, amber glass, white graduation line and marking spot, Silanized	100pcs. per PP box
3.T30111.0000	11mm Snap neck Micro vial, 0.1ml, 32x11.6mm, transparent TPX	100pcs. per PE bag
3.T30211.0G00	11mm Snap neck vial, 32x11.6mm, 0.2mL micro-vial, transparent TPX with integrated glass insert	100pcs. per PE bag
3.T30711.0000	11mm Snap neck vial, 32x11.6mm, 0.75mL micro-vial, transparent TPX	100pcs. per PE bag
3.P30111.0000	11mm Snap neck vial, 32x11.6mm, 0.3mL micro-vial, transparent PP	100pcs. per PE bag
3.P31511.0000	11mm Snap neck vial, 32x11.6mm, 0.7mL micro-vial, transparent PP	100pcs. per PE bag

### 11mm Preassembled Snap Caps

Art.	Description	Pkg
3.005500.1100	Preassembled cap and septa for 11mm Snap neck, PE cap, transparent, centre hole, molded septum	100pcs. per PE bag
3.005510.1100	Preassembled cap and septa for 11mm Snap neck, PE cap, transparent, centre hole, white PTFE septa, 0.010" thick	100pcs. per PE bag
3.005540.1100	Preassembled cap and septa for 11mm Snap neck, PE cap, transparent, centre hole, White PTFE/red Rubber	100pcs. per PE bag
3.005550.1100	Preassembled cap and septa for 11mm Snap neck, PE cap, transparent, centre hole, White silicone/Red PTFE	100pcs. per PE bag
3.005560.1100	Preassembled cap and septa for 11mm Snap neck, PE cap, transparent, centre hole, Red PTFE/White silicone/Red PTFE	100pcs. per PE bag
3.005570.1100	Preassembled cap and septa for 11mm Snap neck, PE cap, transparent, centre hole, White silicone/Blue PTFE, cross-slitted	100pcs. per PE bag
3.B05510.1100	Preassembled cap and septa for 11mm Snap neck, PE cap, blue, centre hole, white PTFE septa, 0.010" thick	100pcs. per PE bag
3.B05540.1100	Preassembled cap and septa for 11mm Snap neck, PE cap, blue, centre hole, White PTFE/red Rubber	100pcs. per PE bag
3.B05550.1100	Preassembled cap and septa for 11mm Snap neck, PE cap, blue, centre hole, White silicone/Red PTFE	100pcs. per PE bag
3.B05560.1100	Preassembled cap and septa for 11mm Snap neck, PE cap, blue, centre hole, Red PTFE/White silicone/Red PTFE	100pcs. per PE bag
3.G05540.1100	Preassembled cap and septa for 11mm Snap neck, PE cap, green, centre hole, White PTFE/red Rubber	100pcs. per PE bag
3.R05510.1100	Preassembled cap and septa for 11mm Snap neck, PE cap, Red, centre hole, white PTFE septa, 0.010" thick	100pcs. per PE bag

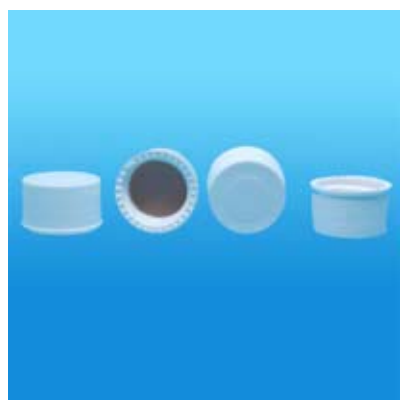
# Autosampler Vials



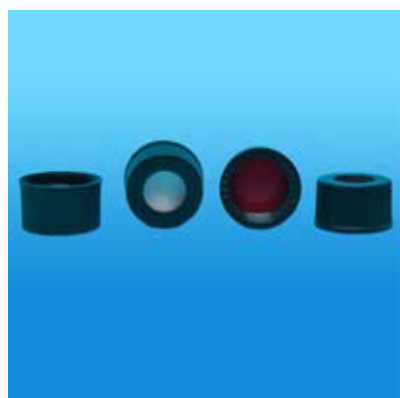
3.034013.00E0



3.034013.00EA



3.W05360.1300



3.005395.1300

## 13-425 Screw Thread Neck Vials

### Why Choose 15x45mm Screw Cap Vials?

15x45mm vials have a 13-425 GPI thread and can hold up to 4ml of sample. They are used by the Waters 48-position autosampler and many others.

### 13-425 Screw Thread Vials

Art.	Description	Pkg
3.034013.00E0	13-425 Thread screw neck vial, 45x14.7mm, clear glass, white graduation line and marking spot and LOGO	100pcs. per PP box
3.034013.00EA	13-425 Thread screw neck vial, 45x14.7mm, amber glass, white graduation line and marking spot and LOGO	100pcs. per PP box
3.034013.0Z00	13-425 Thread screw neck vial, 45x14.7mm, clear glass, Silanized	100pcs. per PP box
3.034013.0Z0A	13-425 Thread screw neck vial, 45x14.7mm, amber glass, Silanized	100pcs. per PP box
3.P32513.0000	13-425 Thread screw neck vial, 45x14.7mm, 2.5mL micro-vial, transparent PP	100pcs. per PE bag

### 13-425 Screw Caps

Art.	Description	Pkg
3.005310.1300	13-425 Screw thread cap, made from PP, black, centre hole	100pcs. per PE bag
3.W05310.1300	13-425 Screw thread cap, made from PP, white, centre hole	100pcs. per PE bag
3.005320.1300	13-425 Screw thread cap, made from PP, black, closed	100pcs. per PE bag
3.W05320.1300	13-425 Screw thread cap, made from PP, white, closed	100pcs. per PE bag

### 13-425 Preassembled Screw Caps

Art.	Description	Pkg
3.005394.1300	Cap and septa for 13-425 thread screw, PP cap, black, centre hole, Red rubber/White PTFE, 0.050" thick	100pcs. per PE bag
3.005395.1300	Preassembled cap and septa for 13-425 thread screw, PP cap, black, centre hole, White silicone/Red PTFE, 0.060" thick	100pcs. per PE bag
3.005396.1300	Preassembled cap and septa for 13-425 thread screw, PP cap, black, centre hole, Red PTFE/White Silicone/Red PTFE, 0.040" thick	100pcs. per PE bag
3.005397.1300	Preassembled cap and septa for 13-425 thread screw, PP cap, black, centre hole, White Silicone/Red PTFE, 0.060" thick, slitted	100pcs. per PE bag
3.CS5360.1300	Preassembled cap and septa for 13-425 thread screw, PP cap, black, closed, White silicone/Red PTFE	100pcs. per PE bag
3.W05360.1300	Preassembled cap and septa for 13-425 thread screw, PP cap, black, closed, F217 line	100pcs. per PE bag

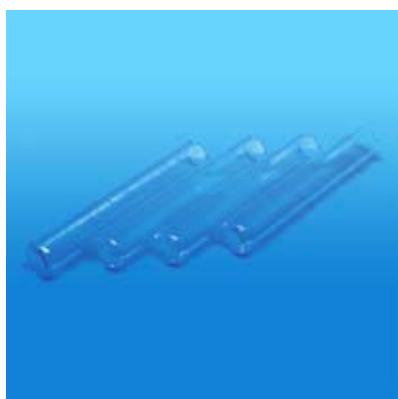
### Septa for 13-425 Screw Caps

Art.	Description	Pkg
3.601010.1300	Septa for 13-425 screw thread cap, white PTFE only, 0.010" thick	100pcs. per PE bag
3.605040.1300	Septa for 13-425 screw thread cap, White PTFE/red Rubber, 0.050" thick	100pcs. per PE bag
3.606050.1300	Septa for 13-425 screw thread cap, White silicone/Red PTFE, 0.060" thick	100pcs. per PE bag
3.606070.1300	Septa for 13-425 screw thread cap, White silicone/Red PTFE, slitted, 0.060" thick	100pcs. per PE bag
3.607550.1300	Septa for 13-425 screw thread cap, White silicone/Red PTFE, 0.075" thick	100pcs. per PE bag

# Autosampler Vials



3.004025.06BS



3.004025.0500



3.004025.060E



3.004025.0600

## Limited Volume Inserts

### Why Choose Limited Volume Inserts?

Limited volume inserts are an economical solution in sample analysis to reduce the use and waste of solvents and small samples. For optimum instrument performance and accurate test results, use the correct insert is used with the appropriate autosampler vial.

### Limited Volume Inserts

Art.	Description	Pkg
3.000401.050E	Insert for small open vial, 31x5mm, clear glass, plastic spring not required, Economic	100pcs. per PE bag
3.000401.05BS	Insert for small open vial, 29x5mm, clear glass, preassembled plastic spring	100pcs. per PE bag
3.000403.X6BS	Insert for 13-425 Screw thread vial, 0.300ml, clear glass, preassembled plastic spring	100pcs. per PE bag
3.000405.0800	Insert for 13-425 Screw thread vial, 0.500ml, clear glass, flat bottom	100pcs. per PE bag
3.004025.0500	Insert for small open vial, 31x5mm, clear glass, flat bottom, heavy wall	100pcs. per PE bag
3.004025.050G	Insert for small open vial, 31x5mm, clear glass, flat bottom, mean wall	100pcs. per PE bag
3.004025.0600	Insert for large open vial, 31x6mm, clear glass, flat bottom, heavy wall	100pcs. per PE bag
3.004025.060E	Insert for large open vial, 31x6mm, clear glass, plastic spring not required, Economic	100pcs. per PE bag
3.004025.06BS	Insert for large open vial, 29x5.7mm, clear glass, preassembled plastic spring	100pcs. per PE bag
3.004025.Z600	Insert for large open vial, 31x6mm, clear glass, flat bottom, heavy wal, silanized	100pcs. per PE bag
3.004025.Z6BS	Insert for large open vial, 29x5.7mm, clear glass, preassembled plastic spring, silanized	100pcs. per PE bag
3.M00401.0400	Insert for small open vial, 27.5x4mm, clear glass, requires metal spring	100pcs. per PE bag
3.M00403.0600	Insert for 13-425 Screw thread vial, 40x6mm, clear glass, requires metal spring	100pcs. per PE bag
3.M04000.0500	metal spring for 3.M00401.0400, 5x36mm	100pcs. per PE bag
3.M04000.0600	metal spring for 3.M00403.0600, 7.5x50mm	100pcs. per PE bag
3.P04001.05BS	Insert for small open vial, 29x5mm, transparent plastic, preassembled plastic spring	100pcs. per PE bag
3.P04025.06BS	Insert for large open vial, 31x6mm, transparent plastic, preassembled plastic spring	100pcs. per PE bag
3.P04035.0600	Insert for 13-425 Screw thread vial, 0.350ml, transparent plastic, Flat bottom	100pcs. per PE bag

# Autosampler Vials



3.P04130.1500



3.SB5400.1200

## Shell Vials

Shell vials feature thicker walls for safer sample handling. They are compatible with Waters WISP™ 48 and 96 style autosamplers.

All shell vials are supplied with polyethylene plug closures – their tear-away design ensures excellent penetration and ventilation during sampling.

### Shell Vials

Art.	Description	Pkg
3.004100.0800	1ml shell vial, 40x8.2mm, clear glass	100pcs. per PP box
3.004100.080A	1ml shell vial, 40x8.2mm, amber glass	100pcs. per PP box
3.004100.1200	2ml shell vial, 31.5x11.6mm, clear glass	100pcs. per PP box
3.004100.120A	2ml shell vial, 31.5x11.6mm, amber glass	100pcs. per PP box
3.004100.1500	4ml shell vial, 44.6x14.65mm, clear glass	100pcs. per PP box
3.004100.150A	4ml shell vial, 44.6x14.65mm, amber glass	100pcs. per PP box
3.P04100.0800	1ml shell vial, 40x8.2mm, transparent PP	100pcs. per PE bag
3.P04100.1200	2ml shell vial, 31.5x11.6mm, transparent PP	100pcs. per PE bag
3.P04100.1500	4ml shell vial, 44.6x14.65mm, transparent PP	100pcs. per PE bag
3.P04107.0800	0.7ml shell vial, 40x8.2mm, transparent PP	100pcs. per PE bag
3.P04130.1500	3ml shell vial, 44.6x14.65mm, transparent PP	100pcs. per PE bag

### Plug for Shell Vials

Art.	Description	Pkg
3.SB5400.0800	8mm transparent PE-plug for shell vial	100pcs. per PE bag
3.SB5400.1200	12mm transparent PE-plug for shell vial	100pcs. per PE bag
3.SB5400.1500	15mm transparent PE-plug for shell vial	100pcs. per PE bag

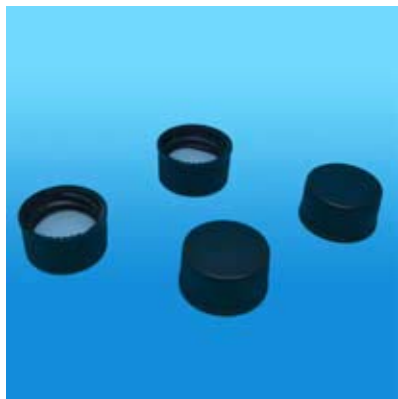
# Storage Vials and EPA Vials



3.038015.00E0



3.316018.00EA



3.005360.1500

## Storage Vials and EPA Vials

### Sample Storage Vials

These large volume vials are ideal for sample storage and general laboratory use.

#### 15-425 Screw Thread Vials

Art.	Description	Pkg
3.038015.00E0	15-425 Thread screw neck vial, 8ml, 61x16.6mm, clear glass, white marking spot and LOGO	100pcs. per Carton
3.038015.00EA	15-425 Thread screw neck vial, 8ml, 61x16.6mm, amber glass, white marking spot and LOGO	100pcs. per Carton

#### 15-425 Screw Caps

Art.	Description	Pkg
3.005310.1500	15-425 Screw thread cap, made from PP, black, centre hole	100pcs. per PE bag
3.005320.1500	15-425 Screw thread cap, made from PP, black, closed	100pcs. per PE bag

#### 15-425 Preassembled Screw Caps

Art.	Description	Pkg
3.005360.1500	Preassembled cap and septa for 15-425 thread screw, PP cap, black, closed, Clear silicone/White PTFE, 0.060" thick	100pcs. per PE bag
3.W05360.1500	Preassembled cap and septa for 15-425 thread screw, PP cap, white, closed, F217 line	100pcs. per PE bag

#### Septa for 15-425 Screw Caps

Art.	Description	Pkg
3.606050.150G	Septa for 15-425 screw thread cap, Clear silicone/White PTFE, 0.060" thick	100pcs. per PE bag
3.606050.15LB	Septa for 15-425 screw thread cap, Clear silicone/White PTFE, 0.060" thick, ultra low bleed	100pcs. per PE bag

#### 18-400 Screw Thread Vials

Art.	Description	Pkg
3.316018.00E0	18-400 Thread screw neck vial, 15ml, 71x20.6mm, clear glass, white marking spot and LOGO	100pcs. per Carton
3.316018.00EA	18-400 Thread screw neck vial, 15ml, 71x20.6mm, amber glass, white marking spot and LOGO	100pcs. per Carton

#### 18-400 Screw Cap and Preassembled Screw Cap

Art.	Description	Pkg
3.005310.1800	18-400 Screw thread cap, made from PP, black, centre hole	100pcs. per PE bag
3.005320.1800	18-400 Screw thread cap, made from PP, black, closed	100pcs. per PE bag
3.005360.1800	Preassembled cap and septa for 18-400 thread screw, PP cap, black, closed, Clear silicone/White PTFE, 0.060" thick	100pcs. per PE bag

#### Septa for 18-400 Screw Caps

Art.	Description	Pkg
3.606050.180G	Septa for 18-400 screw thread cap, Clear silicone/Red PTFE, 0.060" thick	100pcs. per PE bag
3.606050.18LB	Septa for 18-400 screw thread cap, Clear silicone/White PTFE, 0.060" thick, ultra low bleed	100pcs. per PE bag

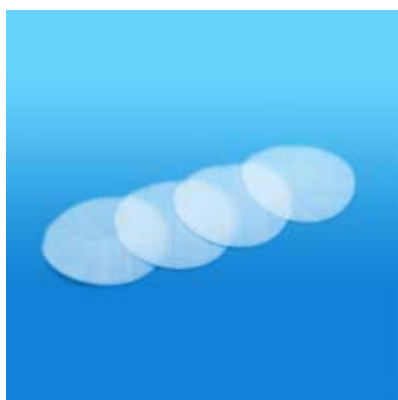
# Storage Vials and EPA Vials



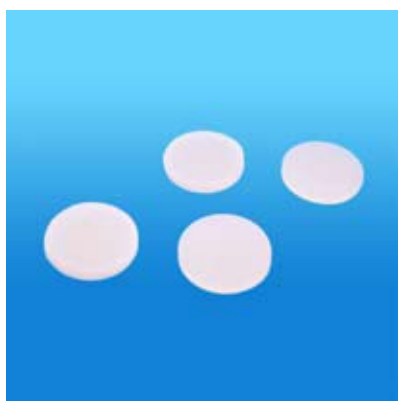
3.320024.00E0



3.320024.00EA



3.601010.2400



3.610050.24LB

## EPA Vials

### Why Choose EPA Vials?

EPA vials are specifically designed for use with volatile organic compounds, as recommended by EPA CFR Part 136 and under EPA 40 CFR 141. They are available in both clear and amber borosilicate glass.

### 24-400 Screw Thread EPA Vials

Art.	Description	Pkg
3.320024.00E0	24-400 Thread screw neck EPA vial, 20ml, 57x27.5mm, clear glass, white marking spot and LOGO	100pcs. per Carton
3.320024.00EA	24-400 Thread screw neck EPA vial, 20ml, 57x27.5mm, amber glass, white marking spot and LOGO	100pcs. per Carton
3.330024.0000	24-400 Thread screw neck EPA vial, 30ml, 72.5x27.5mm, clear glass	100pcs. per Carton
3.330024.000A	24-400 Thread screw neck EPA vial, 30ml, 72.5x27.5mm, amber glass	100pcs. per Carton
3.340024.00E0	24-400 Thread screw neck EPA vial, 40ml, 95x27.5mm, clear glass, white marking spot and LOGO	100pcs. per Carton
3.340024.00EA	24-400 Thread screw neck EPA vial, 40ml, 95x27.5mm, amber glass, white marking spot and LOGO	100pcs. per Carton
3.360024.00E0	24-400 Thread screw neck EPA vial, 60ml, 140x27.5mm, clear glass, white marking spot and LOGO	100pcs. per Carton
3.360024.00EA	24-400 Thread screw neck EPA vial, 60ml, 140x27.5mm, amber glass, white marking spot and LOGO	100pcs. per Carton

### 24-400 Screw Caps

Art.	Description	Pkg
3.005310.2400	24-400 Screw thread cap, made from PP, black, centre hole	100pcs. per PE bag
3.W05310.2400	24-400 Screw thread cap, made from PP, white, centre hole	100pcs. per PE bag
3.005320.2400	24-400 Screw thread cap, made from PP, black, closed	100pcs. per PE bag
3.W05320.2400	24-400 Screw thread cap, made from PP, white, closed	100pcs. per PE bag

### 24-400 Preassembled Screw Caps

Art.	Description	Pkg
3.005360.2400	Preassembled cap and septa for 24-400 thread screw, PP cap, black, closed, Clear silicone/White PTFE, 0.100" thick	100pcs. per PE bag

### Septa for 24-400 Screw Caps

Art.	Description	Pkg
3.601010.2400	Septa for 24-400 screw thread cap, white PTFE only, 0.010" thick	100pcs. per PE bag
3.610050.240L	Septa for 24-400 screw thread cap, Clear silicone/White PTFE, 0.100" thick	100pcs. per PE bag
3.610050.24LB	Septa for 24-400 screw thread cap, Clear silicone/White PTFE, 0.100" thick, ultra low bleed	100pcs. per PE bag

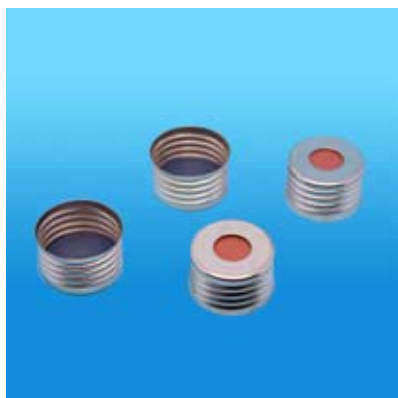
# Headspace Vials



3.310018.0EM0



3.320018.0EMA



3.F05394.18M0

## Headspace Vials

### 18mm Precision Thread Neck Headspace vials

#### Why Choose 18mm Precision Thread Headspace vials?

Comparable results regarding tightness as with 20mm Crimp Neck Headspace Vials due to the precision thread that draws the septa tight against the vial.

Reproducible results, as untightnesses due to crimping faults by incorrectly adjusted or non-adjustable crimpers are excluded.

Samples can be taken and stored directly in the field in the analysis vial, so that a later sample transfer in the lab is unnecessary.

#### 18mm Precision Thread Headspace Vials

Art.	Description	Pkg
3.310018.0EM0	18mm precision Thread vial, 10ml, 46x22.5mm, clear glass, rounded bottom, white marking spot and LOGO	100pcs. per Carton
3.310018.0EMA	18mm precision Thread vial, 10ml, 46x22.5mm, amber glass, rounded bottom, white marking spot and LOGO	100pcs. per Carton
3.320018.0EM0	18mm precision Thread vial, 20ml, 75.5x22.5mm, clear glass, rounded bottom, white marking spot and LOGO	100pcs. per Carton
3.320018.0EMA	18mm precision Thread vial, 20ml, 75.5x22.5mm, amber glass, rounded bottom, white marking spot and LOGO	100pcs. per Carton

#### 18mm Preassembled Precision Caps

Art.	Description	Pkg
3.F05394.18M0	Preassembled cap and septa for 18mm precision Thread vial, magnetic cap, clear, centre hole, butyl/PTFE, 0.060" thick	100pcs. per PE bag
3.TB5395.18M0	Preassembled cap and septa for 18mm precision Thread vial, magnetic cap, clear, centre hole, Translucent Blue silicone/white PTFE, 0.050" thick	100pcs. per PE bag
3.005360.18M0	Preassembled cap and septa for 18mm precision Thread vial, magnetic cap, clear, closed, Red butyl/Grey PTFE, 0.050" thick	100pcs. per PE bag

#### Septa for 18mm Precision Caps

Art.	Description	Pkg
3.605050.1800	Setpa for 18mm magnetic screw thread cap, White silicone/Red PTFE, 0.050" thick(Revised 01-09-2009)	100pcs. per PE bag
3.606050.1800	Setpa for 18mm magnetic screw thread cap, White silicone/Blue PTFE, 0.060" thick(Revised 01-09-2009)	100pcs. per PE bag
3.606050.180F	Setpa for 18mm magnetic screw thread cap, butyl/PTFE, 0.060" thick	100pcs. per PE bag
3.606050.18TB	Setpa for 18mm magnetic screw thread cap, Translucent Blue silicone/white PTFE, 0.050" thick	100pcs. per PE bag

# Headspace Vials



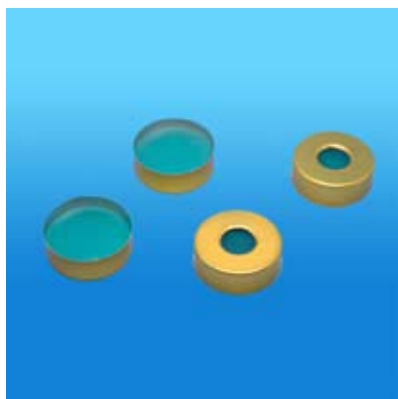
3.036020.0E00



3.100020.0000



3.350020.0E00



3.TB5150.20MY

## 20mm Crimp Neck Headspace Vials

### Why Choose Headspace Vials?

CNW high quality headspace vials have a bevelled neck for a secure seal, uniform glass thickness for even heat distribution and a stable, strong design for ease of use. They are available with rounded or flat bottom profiles for accurate instrument compatibility. Use with 20mm headspace caps and septa and seal with 20mm crimping accessories.

### 20mm Crimp Neck Headspace Vials

Art.	Description	Pkg
3.036020.0E00	20mm crimp neck headspace vial, 6ml, 38.2x22mm, clear glass, flat bottom, white marking spot and LOGO, for Varian	100pcs. per Carton
3.036020.0EA0	20mm crimp neck headspace vial, 6ml, 38.2x22mm, clear glass, rounded bottom, white marking spot and LOGO, for PE	100pcs. per Carton
3.310020.0E00	20mm crimp neck headspace vial, 10ml, 46x22.5mm, clear glass, flat bottom, white marking spot and LOGO, for Carlo Erba/Dani/Fisons/Agilent	100pcs. per Carton
3.310020.0EA0	20mm crimp neck headspace vial, 10ml, 46x22.5mm, clear glass, rounded bottom, white marking spot and LOGO, for CTC/Varian	100pcs. per Carton
3.310020.0EAA	20mm crimp neck headspace vial, 10ml, 46x22.5mm, amber glass, rounded bottom, white marking spot and LOGO, for CTC/Varian	100pcs. per Carton
3.320020.0E00	20mm crimp neck headspace vial, 20ml, 75.5x22.5mm, clear glass, flat bottom, white marking spot and LOGO, for Carlo Erba/Dani/Fisons/Agilent	100pcs. per Carton
3.320020.0EA0	20mm crimp neck headspace vial, 20ml, 75.5x23mm, clear glass, rounded bottom, white marking spot and LOGO, for PE/Tekmar	100pcs. per Carton
3.320020.0EAA	20mm crimp neck headspace vial, 20ml, 75.5x23mm, amber glass, rounded bottom, white marking spot and LOGO, for PE/Tekmar	100pcs. per Carton
3.350020.0E00	20mm crimp neck headspace vial, 50ml, 101x31mm, clear glass, flat bottom, white marking spot and LOGO	100pcs. per Carton
3.100020.0000	20mm crimp neck headspace vial, 100ml, 94.5x51.6mm, clear glass, flat bottom, 3rd hydro.; Class	88pcs. Shrink-wrapped

### 20mm Crimp Caps

Art.	Description	Pkg
3.005100.2000	Aluminum cap for 20mm crimp neck vial, without septa	100pcs. per PE bag
3.005100.20SS	Safety aluminum cap for 20mm crimp neck vial, without septa	100pcs. per PE bag

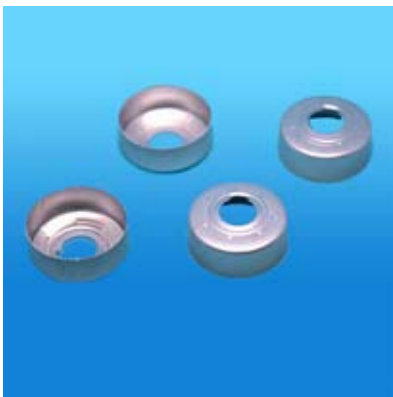
### Septa for 20mm Crimp Caps

Art.	Description	Pkg
3.600004.2000	Septa for 20mm crimp neck headspace vial, Butyl Injection Stopper, grey	100pcs. per PE bag
3.610040.200G	Septa for 20mm crimp neck headspace vial, moulded, Butyl/PTFE, 0.120" thick	100pcs. per PE bag
3.610050.20TB	Septa for 20mm crimp neck headspace vial, Translucent Blue silicone/Nature PTFE, 0.125" thick	100pcs. per PE bag
3.610050.2200	Septa for 20mm crimp neck headspace vial, Clear silicone/White PTFE, 0.125" thick	100pcs. per PE bag

# Headspace Vials



3.320020.0EAA



3.005100.20SS

## 20mm Preassembled Crimp Caps

Art.	Description	Pkg
3.005150.2000	Preassembled cap and septa for 20mm crimp neck headspace vial, Aluminum cap, clear, centre hole, Clear silicone/White PTFE, 0.125" thick	100pcs. per PE bag
3.005150.20SS	Preassembled cap and septa for 20mm crimp neck headspace vial, Safty aluminum cap, clear, centre hole, Clear silicone/White PTFE, 0.125" thick	100pcs. per PE bag
3.F05140.2000	Preassembled cap and septa for 20mm crimp neck headspace vial, Aluminum cap, clear, centre hole, butyl/PTFE, 0.120" thick	100pcs. per PE bag
3.F05140.20MY	Preassembled cap and septa for 20mm crimp neck headspace vial, Magnetic cap, yellow, centre hole, butyl/PTFE, 0.120" thick	100pcs. per PE bag
3.F05140.20SS	Preassembled cap and septa for 20mm crimp neck headspace vial, Safty Aluminum cap, clear, centre hole, butyl/PTFE, 0.120" thick	100pcs. per PE bag
3.TB5150.2000	Preassembled cap and septa for 20mm crimp neck headspace vial, Aluminum cap, clear, centre hole, Translucent Blue silicone/white PTFE, 0.125" thick	100pcs. per PE bag
3.TB5150.20MY	Preassembled cap and septa for 20mm crimp neck headspace vial, Magnetic cap, yellow, centre hole, Translucent Blue silicone/white PTFE, 0.125" thick	100pcs. per PE bag
3.TB5150.20SS	Preassembled cap and septa for 20mm crimp neck headspace vial, Safty aluminum cap, clear, centre hole, Translucent Blue silicone/white PTFE, 0.125" thick	100pcs. per PE bag

# Headspace Vials



3.350040.0000



3.009300.1100

## Crimpers & Decrimpers

- Painted, plated and coated for maximum corrosion resistance
- Adjustable stop for optimal sealing performance
- Textured handles for excellent grip
- Controlled, low-effort method for removing caps, reducing both sample spillage and breakages

### Crimping Tools

Art.	Description	Pkg
3.009300.0800	Crimper for 8mm Aluminum caps	1 pc. Per box
3.009300.1100	Crimper for 11mm Aluminum caps	1 pc. Per box
3.009300.1300	Crimper for 13mm Aluminum caps	1 pc. Per box
3.009300.2000	Crimper for 20mm Aluminum caps	1 pc. Per box
3.009320.0800	Decapper for 8mm Aluminum caps	1 pc. Per box
3.009320.1100	Decapper for 11mm Aluminum caps	1 pc. Per box
3.009320.1300	Decapper for 13mm Aluminum caps	1 pc. Per box
3.009320.2000	Decapper for 20mm Aluminum caps	1 pc. Per box

### Special Products

Art.	Description	Pkg
3.350040.0000	50ml Cylindrical Jar, 69.5 x 44mm, clear glass, 3rd hydrolytical class, with Screw Neck ND40	85pcs. Shrink-wrapped
3.V05360.4000	40mm Combination Seal: PP Screw Cap, black, closed top; PTFE virginal, 53° shore D, 0.5mm	100pcs. per PE bag