

Introduction

Kinesis KX vials are the **cost-effective choice for standard applications.**



All vials are made from **Type 1 borosilicate glass** ensuring **clean, precision fit vials with excellent chemical resistance.**

The **KX range** of standard 2ml autosampler vials and closures includes:

- 11mm crimp top
- 11mm snap top
- 9mm short thread

All vials are available in **clear glass, clear with write-on patch or amber with write-on patch.** For low volume samples, clear glass inserts are available:

- 0.2ml flat bottom
- 0.1ml precision point taper with plastic spring

Kinesis KX closures are **pre-assembled caps** and **septa**. The KX range offers a variety of septa to best suit your application:

- Red rubber / PTFE – synthetic rubber for minimal fragmentation with a PTFE coating for maximum chemical compatibility.
- Silicone / PTFE – for contaminant free sample handling.
- PTFE / Silicone / PTFE – PTFE laminated high purity silicone to prevent coring. Available with or without cross-split for easy needle access.



KX Headspace vials

Kinesis **KX headspace vials** are available with rounded or flat bottom profiles for accurate instrument compatibility. Flat bottom vials have a greater stability; round bottom vials are best for autosamplers that physically move the vials and can reduce positioning errors. The KX range offers 20ml volume vials to fit CTC, Agilent and PE autosamplers.

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11mm crimp neck vials and seals

- 11mm, wide-opening vials
- 12 x 32mm vial fits most autosamplers
- Uniformly flat bottom for security with inserts
- Aluminium crimp seals all have centre hole with septa



Crimp neck vials, 11mm

Part No.	Description	Qty PK
VC1102	Vial, crimp top, 2ml, clear glass	10 x 100
VC1102-L	Vial, crimp top, 2ml clear glass with write-on label	10 x 100
VC1102-AL	Vial, crimp top, 2ml amber glass with write-on label	10 x 100

Crimp seals, 11mm, aluminium

Part No.	Septum	Qty PK
KCC-11-02	Red rubber / PTFE	10 x 100
CRC11-03	Red PTFE / white silicone / red PTFE	10 x 100
CRC11-04	White silicone / red PTFE	10 x 100
CRC11-04BS	White silicone / blue PTFE, cross-slit	10 x 100

Inserts for crimp top vials

Part No.	Description	Qty PK
IN629-01S	0.1ml insert, clear glass, precision point taper with plastic spring	10 x 100
IN631-02	0.2ml insert, clear glass, flat bottom	10 x 100



VC1102

VC1102-L

VC1102-AL

CRC11-03

CRC11-04

IN629-01S

IN631-02

9mm short thread vials and seals

- 9mm, wide-opening vials
- 12 x 32mm vial fits most autosamplers
- Suitable for robotic handling
- Short thread seals all have centre hole with septa



Short thread vials, 9mm

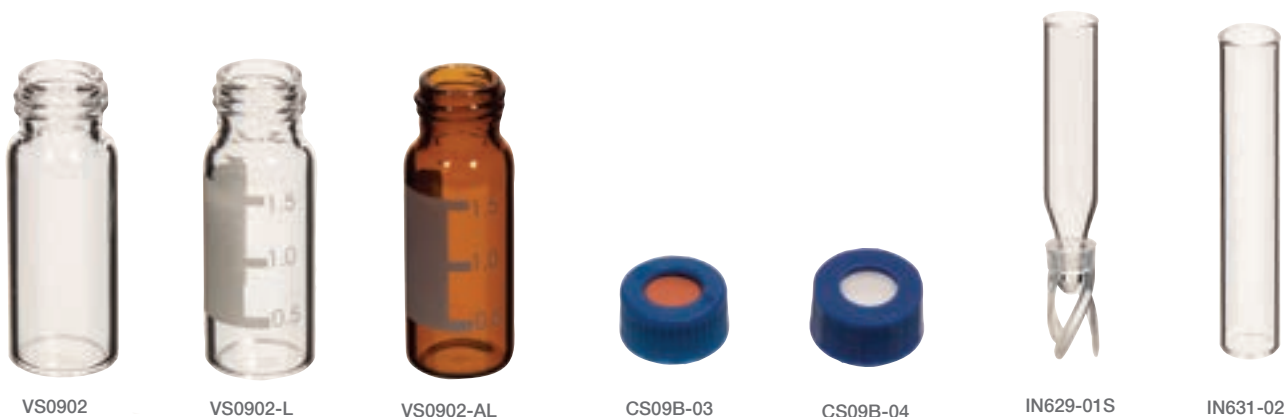
Part No.	Description	Qty PK
VS0902	Vial, short thread, 2ml, clear glass	10 x 100
VS0902-L	Vial, short thread, 2ml, clear glass with write-on label	10 x 100
VS0902-AL	Vial, short thread, 2ml, amber glass with write-on label	10 x 100

Screw seals, 9mm

Part No.	Septum	Qty PK
SCC09-02B	Red rubber / PTFE	10 x 100
CS09B-03	Red PTFE / white silicone / red PTFE	10 x 100
CS09B-04	Silicone / red PTFE	10 x 100
CS09B-04BS	Silicone / blue PTFE, cross-slit	10 x 100

Inserts for short thread vials

Part No.	Description	Qty PK
IN629-01S	0.1ml insert, clear glass, precision point taper with plastic spring	10 x 100
IN631-02	0.2ml insert, clear glass, flat bottom	10 x 100



VS0902

VS0902-L

VS0902-AL

CS09B-03

CS09B-04

IN629-01S

IN631-02

11mm snap top vials and seals

- 9mm, wide opening vials
- 12 x 32mm vial fits most autosamplers
- Suitable for robotic handling
- Short thread seals all have centre hole with septa



Snap top vials, 11mm

Part No.	Description	Qty PK
VX1102	Vial, snap top, 2ml, clear glass	10 x 100
VX1102-L	Vial, snap top, 2ml, clear glass with write-on label	10 x 100
VX1102-AL	Vial, snap top, 2ml, amber glass with write-on label	10 x 100

Snap seals, 11mm

Part No.	Septum	Qty PK
SNC11-02	Red rubber / PTFE	10 x 100
CX11-03	Red PTFE / white silicone / red PTFE	10 x 100
CX11-04	Silicone / red PTFE	10 x 100
CX11-04BS	Silicone / blue PTFE, with cross-slit	10 x 100

Inserts for snap top vials

Part No.	Description	Qty PK
IN629-01S	0.1ml insert, clear glass, precision point taper with plastic spring	10 x 100
IN631-02	0.2ml insert, clear glass, flat bottom	10 x 100



VC1102

VC1102-L

VC1102-AL

CX11-03

CX11-04

IN629-01S

IN631-02

Headspace vials and seals

- 20ml volume vials to fit CTC, Agilent and PE autosamplers
- Headspace closures all have centre hole with septa and are suitable for magnetic pick-up autosamplers



Crimp top vials, headspace

Part No.	Description	Qty PK
VH2020-01	Vial, headspace, crimp, 20ml, round bottom (CTC)	10 x 100
VH2020-02	Vial, headspace, crimp, 20ml, flat bottom (Agilent)	10 x 100
VH2020-03	Vial, headspace, crimp, 20ml, round bottom (PE)	10 x 100

Crimp seals, headspace

Part No.	Description	Qty PK
CRC20-04	Silicone / PTFE	10 x 100

Screw top vials, headspace

Part No.	Description	Qty PK
VS1820-01	Vial, headspace, screw, 20ml, round bottom (CTC / PE)	10 x 100

Screw seals, headspace

Part No.	Description	Qty PK
CS18-04	White silicone / red PTFE	10 x 100



VH2020-01



VH2020-02



VH2020-03



CRC20-04



VS1820-01



CS18-04

Which vial type should I choose?

Crimp top vials

- ✓ Provide the tightest seal, reducing the chance of sample evaporation.
- ✓ Economical and easy to use.

Snap top vials

- ✓ Provide a secure seal that minimises evaporation, even with volatile samples.
- ✓ 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.

Short-thread vials

- ✓ Wide-opening vials with a unique thread design that allows them to be used in a robotic autosampler.
- ✓ Dimensionally equivalent to 11mm crimp cap vials.
- ✓ Screw caps can easily be applied and removed by hand and are re-useable.

Vial selection guide

	Crimp top vials	9mm short thread vials	Snap top vials
Standard 2ml Vials	 32 x 11.6mm	 32 x 11.6mm	 32 x 11.6mm
Inserts	Wide opening		
	Flat bottom  31 x 6mm, 0.2ml	Taper with spring  29 x 6mm, 0.1ml	
Headspace vials	Crimp top, round-bottom long neck (CTC)  75.5 x 22.6mm	Crimp top, round-bottom (PE)  75 x 22.6mm	Crimp top, flat-bottom (Agilent)  75 x 22.6mm
			Screw top, round-bottom  75.5 x 22.6mm

Septa selection guide

Choosing the right septum for your application can help you optimise performance and results. Our septa selection guide will help you match our products to your needs.

Red Rubber/PTFE	Silicone/PTFE	Pre-slit PTFE/Silicone Septa	PTFE/Silicone/PTFE Septa
• PTFE-laminated synthetic rubber • Economical • Easy to pierce and lower fragmentation than natural rubber • Moderate re-sealability • Temp. range -40°C to 110°C	• Good re-sealability • Autoclavable • Excellent resistance to coring • Much cleaner than natural or synthetic rubber • Temp. range -40°C to 200°C	• Reduces the possibility of coring • Prevents a vacuum forming inside the vial • Temp. range -40°C to 200°C	• Good re-sealability • Autoclavable • Excellent resistance to coring • Temp. range -40°C to 200°C
Recommended for: ✓ Routine analyses	Recommended for: ✓ Multiple injections ✓ Sample storage	Recommended for: ✓ Applications using thin gauge or blunt-tipped needles	Recommended for: ✓ Multiple injections ✓ Demanding applications such as internal standards, trace analysis ✓ Applications with a long time between injections.

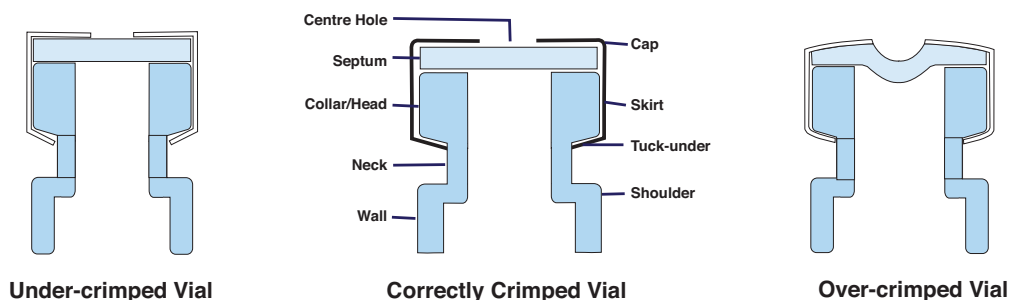
Tech Tips

Crimping Technique

Accurate results need a correctly crimped vial.

- **Over-crimping** may cause coring or poor septum re-sealing.
- **Under-crimping** can cause evaporation problems.

Correct crimping results in a cap that should not be able to rotate and a septum that appears smooth and level. This can be achieved with the proper adjustment of the vial crimpers.



Screw cap technique

In the same way that crimp caps can be over or under-crimped, screw caps can also be incorrectly tightened. Closures should be screwed on securely but not over-tightened.

Over-tightening may cause:

- **Septum distortion** – when placed under too much pressure the septum can become twisted inside the cap, leading to re-sealing problems and coring on injection.
- **Unscrewing** – an over-tightened cap can actually unscrew itself resulting in sample evaporation.

