

Chromacol Vial Inserts

Low Volume Inserts for 2mL Vials

What are Inserts?

- Inserts are small volume precision-formed tubes that fit into standard auto sampler vials.
- The inserts may be tapered or flat bottomed.
- The tapered vials require a removable plastic foot to be used that serves two purposes, it aligns the vial centrally in the vial and it gives a spring pressure that holds the insert securely against the seal.

Why are they used?

- They allow small volumes of sample to be processed by conventional auto samplers by placing a smaller volume vial within a standard 12mm x 32mm holding vial.
- They can give a secure sample environment within the re-usable external vial.

Chromacol inserts provide:-

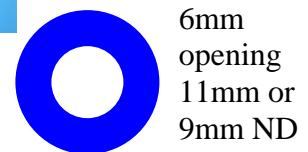
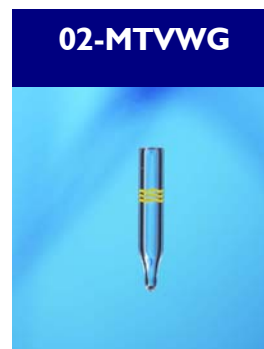
- Vial compatibility
- Precision formed tapered points.
- Inert borosilicate Type I USP Glass

Compatibility

- Narrow opening vials can only be used with the 5mm od inserts.
- Wide mouth screw neck vials and crimp vials should be used with 6mm od inserts.
- Flat bottom inserts should self-align within the vial
- Tapered inserts should be used with the plastic foot MTS- I .

Volumes

- The nominal fill volumes are between 200µL and 300µL for these products.
- Residual volumes are less than 4µL for the tapered products.





Chromacol Product Guide

Assembled Inserts

- 2-SV narrow neck screw vial
- 02-MTV 5mm x 32mm Insert
- MTS-I Polyethylene support

Closure is by a 8mm plastic screw cap. In this case a yellow 8-SC(Y)

The polyethylene support allows:-

- Pressure against the cap seal to maintain sample integrity during injection.
- Downward movement of the insert if the needle reaches the bottom to prevent needle damage and give maximum extraction of sample.

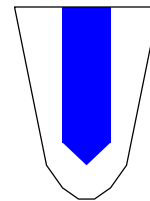


Mandrel Point Inserts

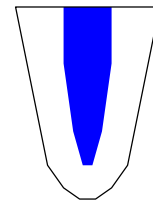
For the most precious samples, where extraction of the last few microlitres is critical then an internal mandrel point insert may be used.

- The mandrel point gives a controlled inner profile that allows the extraction needle to consistently reach the last few drops of sample.
- The 02-MTVMP is only suitable for narrow opening vials.

Mandrel Point



Conical Taper



Ordering

Chromacol Part Number	Description	Vial Compatibility	Pack Size
02-NV	.2mL flat bottom insert - clear	2-SV, 2-SV(A), 2-SVG	1000
02-MTV	.2mL tapered insert - clear	2-SV, 2-SV(A) 2-SVG	1000
02-MTVMP	.2mL tapered insert - clear -with a Mandrel Point for narrow necked vials	2-SV, 2-SV(A), 2-SVG	500
02-MTVWG	.2mL tapered insert - clear gold grade	2-CV, 2-CVG, 2-SVW, 2-DV, 2-RV and amber variants	1000
03-NV	.3mL flat bottom insert	2-CV, 2-CVG, 2-SVW, 2-DV, 2RV and amber variants	1000
MTS-I	Plastic 3 prong support foot for tapered inserts	All 2mL Vials	500

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